



## SEQUENCE LISTING

<110> ~~SECRETED~~ on, Lawrence W.  
White, R. Tyler

<120> SECRETED FACTORS

<130> SCIOS.017A

<140> US 60/193,548

<141> 2000-03-31

<160> 84

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<211> 1340

<212> DNA

<213> Rattus norvegicus

<400> 1

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<210> 2

<211> 203

<212> PRT

<213> Rattus norvegicus

<400> 2

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  1           5           10          15
Asn Pro Val Val Gly Ala Val Tyr Ser Pro Asp Phe Tyr Ala Gly Thr
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<400> 4

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			20					25					30		
Asp	Tyr	Trp	Asp	Tyr	Val	Val	Pro	Glu	Pro	Asn	Leu	Asn	Glu	Val	Val
		35					40					45			
Phe	Glu	Glu	Thr	Thr	Cys	Gln	Asn	Leu	Val	Lys	Met	Leu	Glu	Asn	Cys
	50					55					60				
Leu	Ser	Lys	Ser	Lys	Gln	Thr	Lys	Leu	Gly	Cys	Ser	Lys	Val	Leu	Val
65					70					75					80
Pro	Glu	Lys	Leu	Thr	Gln	Arg	Ile	Ala	Gln	Asp	Val	Leu	Arg	Leu	Ser
				85					90					95	
Ser	Thr	Glu	Pro	Cys	Gly	Leu	Arg	Gly	Cys	Val	Met	His	Val	Asn	Leu
			100					105						110	
Glu	Ile	Glu	Asn	Val	Cys	Lys	Lys	Leu	Asp	Arg	Ile	Val	Cys	Asp	Ala
		115					120					125			
Ser	Val	Val	Pro	Thr	Phe	Glu	Leu	Thr	Leu	Val	Phe	Lys	Gln	Glu	Ser
	130					135					140				
Cys	Ser	Trp	Thr	Ser	Leu	Lys	Asp	Phe	Phe	Phe	Ser	Gly	Gly	Arg	Phe
145					150					155					160
Ser	Ser	Gly	Leu	Lys	Arg	Thr	Leu	Ile	Leu	Ser	Ser	Gly	Phe	Arg	Leu
				165				170						175	
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Cys

<210> 5

<211> 874

<212> DNA

<213> Rattus norvegicus

<400> 5

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cgctctaca	gtgctacttc	tgccaagtgc	ttcacagcgg	ggagagctgc	aacgagacac	300
agagatgctc	cagcagcaag	cccttctgta	tcacagtcac	ctcccatggc	aaaactgaca	360
caggtgtcct	gacgacctac	tccatgtggt	gtactgatac	ctgccagccc	atcgtgaaga	420
cagtggacag	cacccaaatg	acccagacct	gttgccagtc	cacactctgc	aatattccac	480
cctggcagag	cccccaaadc	cacaaccctc	tgggtggccg	ggcagacagc	cccttgaagg	540
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atcctcagag	tgatggggct	cacttgtcta	agggtggcaa	ggctaaccag	ccccagggaa	660
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tcctcaccag	tctgtgggca	tcaggggcct	aaagactcgt	cctcccccaa	ccaggacctt	780
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<210> 6

<211> 236

<212> PRT

<213> Rattus norvegicus

<400> 6

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			20					25					30		
Glu	Arg	Tyr	Ser	Tyr	Asp	Asp	Asp	Gly	Asp	Asp	Asp	Asp	Asp	Asp	Asp
		35				40						45			
Glu	Glu	Glu	Glu	Glu	Glu	Glu	Thr	Asn	Met	Ile	Pro	Gly	Ser	Arg	Asp
		50				55					60				
Arg	Ala	Pro	Pro	Leu	Gln	Cys	Tyr	Phe	Cys	Gln	Val	Leu	His	Ser	Gly
65					70					75					80
Glu	Ser	Cys	Asn	Glu	Thr	Gln	Arg	Cys	Ser	Ser	Ser	Lys	Pro	Phe	Cys
			85						90					95	
Ile	Thr	Val	Ile	Ser	His	Gly	Lys	Thr	Asp	Thr	Gly	Val	Leu	Thr	Thr
			100					105					110		
Tyr	Ser	Met	Trp	Cys	Thr	Asp	Thr	Cys	Gln	Pro	Ile	Val	Lys	Thr	Val
		115					120					125			
Asp	Ser	Thr	Gln	Met	Thr	Gln	Thr	Cys	Cys	Gln	Ser	Thr	Leu	Cys	Asn
		130				135					140				
Ile	Pro	Pro	Trp	Gln	Ser	Pro	Gln	Ile	His	Asn	Pro	Leu	Gly	Gly	Arg
145					150					155					160
Ala	Asp	Ser	Pro	Leu	Lys	Gly	Gly	Thr	Arg	His	Pro	Gln	Gly	Asp	Arg
				165					170					175	
Phe	Ser	His	Pro	Gln	Val	Val	Lys	Val	Thr	His	Pro	Gln	Ser	Asp	Gly
			180					185					190		
Ala	His	Leu	Ser	Lys	Gly	Gly	Lys	Ala	Asn	Gln	Pro	Gln	Gly	Asn	Gly
		195					200					205			
Ala	Gly	Phe	Pro	Ala	Gly	Trp	Ser	Lys	Phe	Gly	Asn	Val	Val	Leu	Leu
	210					215					220				
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225					230					235					

<210> 7  
 <211> 817  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <221> unsure  
 <222> (0)...(0)  
 <223> n = A, T, C, or G

<400> 7

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agaggctcac	actaatgagc	gggcgctctc	ttcttagcca	ctgttgcatc	tggttttcat	180
tgactcctgg	gctcgtttg	agtgacactg	tccttgtctt	ttgtttcaga	gctctcccag	240
tgtagtgga	ctcagatgag	gaaattatga	ccagatctga	aataagctga	aaaatgttct	300
cttcagaaaa	gataatgtga	tcaggggcccc	agtgggtcca	gtgtgcatgg	gagcgcggtc	360
aggtgatggg	aaaggcctgg	ctctcgtcaa	aactgacagc	tgcgctatga	tacatgtctc	420
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cgcctcagaa	agccatcttt	gaaacggact	cataaagtca	gttttgttgc	cattaagttg	540
cctgattttg	gaaacaattt	aagaagtgtt	aaagacatgt	gttcagatgc	ctcttaggcg	600
gcagccacag	gcatgccagg	tttgttcctt	cagttttctc	cagacaaaag	aatctgcagc	660
tgggcgtggc	ggcacactac	tggcagttga	aagtctgtaa	tttcaaggcc	aagcctggtc	720
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aaccnnanna	naaaaaaaaa	aaaaaaaaag	cggccgcg			817

<210> 8  
 <211> 61  
 <212> PRT  
 <213> Rattus norvegicus

<400> 8  
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 Thr Pro Gly Pro Arg Leu Ser Asp Thr Val Leu Val Phe Cys Phe Arg  
 20 25 30  
 Ala Leu Pro Val Leu Val Asp Ser Asp Glu Glu Ile Met Thr Arg Ser  
 35 40 45  
 Glu Ile Ala Glu Lys Met Phe Ser Ser Glu Lys Ile Met  
 50 55 60

<210> 9  
 <211> 755  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <221> unsure  
 <222> (0)...(0)  
 <223> n = A, T, C, or G

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 cctggagtag ggcccaggat gcagggtgcta atgtctatcc ccggcgctct tcttcccgcac 180  
 tctaccatgg gatgtaactc caggagcccc tgccatctcc cgtaccaaaa gactgtggct 240  
 tccgtgtcta ctcagaaatc agttctactt cgtaaacagt gtttaaaacc agactcattt 300  
 aatcagagtg aaggattgca gtccattggc ttcttagcac agaagcagct gataacacaa 360  
 gtaaacccca gcccttgaga ggtagaagca agaggatcag aggttcaagc gcctcctcgg 420  
 ctccatcaca agttcaaaaag ccgcctgcac caaatgggag tccttgtctc aaaaaaaaaa 480  
 aaaaaaaaaa caaagaaagc aaaggactcg atgacatgat ttatagacaa aagcagtggg 540  
 agaaaatact aaagccccac tgagctgccg gccagggtgc tgtgactaca ggtcttttat 600  
 ctgctcatat atattttttac aaaaaatgaa attcatattg gtcgctattt tgctggctgc 660  
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 ttaaaaaaaaa aaaaaaaaaa aaaaaaaagg gcnc 755

<210> 10  
 <211> 79  
 <212> PRT  
 <213> Rattus norvegicus

<400> 10  
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 Met Gly Cys Asn Ser Arg Ser Pro Cys His Leu Pro Tyr Gln Lys Thr  
 20 25 30  
 Val Ala Ser Val Ser Thr Gln Lys Ser Val Leu Leu Arg Lys Gln Cys  
 35 40 45  
 Leu Lys Pro Asp Ser Phe Asn Gln Ser Glu Gly Leu Gln Ser Ile Gly  
 50 55 60  
 Phe Leu Ala Gln Lys Gln Leu Ile Thr Gln Val Asn Pro Ser Pro

65

70

75

<210> 11  
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 <213> *Rattus norvegicus*

<220>  
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 <223> n = A, T, C, or G

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 caaaggcagc ttcccgctag accacttcgg tgagtgtaaa agctttaagg aaaaattcat 180  
 gaagtgtctc cgcgacaaga actatgaaaa tgctctgtgc agaaatgaat ctaaagagta 240  
 tttaatgtgc aggatgcaaa ggcagctgat ggcaccagaa ccactagaga aactcggctt 300  
 tagagacata atggaggaga aaccggaggc aaaggacaaa tggttgagaat cactgggctg 360  
 tgtcccccta cctggagcag agctgagccc ttctgcccac cgtggagaga gctgagccat 420  
 cctgtgtctg ccagaggagg ggctctccgt gtcgactttg gctcatccct gcagcacaga 480  
 ccaaactgct ttctctactg accacacttc tgcttcagag agnggtttct cctgtctgng 540  
 tgtggcacag gatctgctca nggctgaaca ctgatgtgat atgatatccc acctagtgtg 600  
 gccgcacacc aaaaggcctg gacaggattt cacagtgact caacctgagt cctcacaccc 660  
 ggaacctgtc agcgaaaacc aancgaagca aaatgntctg cttttggctt acaaacccca 720  
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 gggggaaata aaaaaaaaaa aaaaaa 806

<210> 12  
 <211> 92  
 <212> PRT  
 <213> *Rattus norvegicus*

<400> 12  
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 20 25 30  
 Phe Lys Glu Lys Phe Met Lys Cys Leu Arg Asp Lys Asn Tyr Glu Asn  
 35 40 45  
 Ala Leu Cys Arg Asn Glu Ser Lys Glu Tyr Leu Met Cys Arg Met Gln  
 50 55 60  
 Arg Gln Leu Met Ala Pro Glu Pro Leu Glu Lys Leu Gly Phe Arg Asp  
 65 70 75 80  
 Ile Met Glu Glu Lys Pro Glu Ala Lys Asp Lys Cys  
 85 90

<210> 13  
 <211> 717  
 <212> DNA  
 <213> *Rattus norvegicus*

<220>  
 <221> unsure  
 <222> (0)...(0)

<223> n = A, T, C, or G

<400> 13

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cctgatagtc tacttcgcca acgcagcgca cagcgaggcc tgtaagaacg ggttgcggtt 180
gcaggatgag tgccgaaaca ccacgcacct gttgaagcac cagctnaccg gcgcccagga 240
cagcctgctg cagacggaga tgcaggcaaa ctcttgcaac cagaccgtga tggaccttcg 300
ggattccctg aagaagaagg tgtctnaaac ccaggagcaa cangcccgca tcaaggaact 360
tgagaataag atcgagaggc tgaaccaaga gctggagaaa tttgaggacc caaaaggaaa 420
tttctaccac agtgcangtg aactcaagcg ggttcgtggt ggncttcanc ctacttgtgc 480
tttgtggcgg gactgttctn cactttttan gacccaataa ttgggangta caaacctgtg 540
taggcattgn nggtngtaat ggcttttgag ggggtcctgg cacccttaag atgtgaanac 600
cattangnng gacccaaaat gnnttttctt gntttgaact ggggcggacc cggagtgggg 660
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<210> 14

<211> 86

<212> PRT

<213> Rattus norvegicus

<220>

<221> UNSURE

<222> (0)...(0)

<223> Xaa = any amino acid

<400> 14

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Leu Lys Lys Lys Val Ser Xaa Thr Gln Glu Gln Xaa Ala Arg Ile Lys
      20           25           30
Glu Leu Glu Asn Lys Ile Glu Arg Leu Asn Gln Glu Leu Glu Lys Phe
      35           40           45
Glu Asp Pro Lys Gly Asn Phe Tyr His Ser Ala Xaa Glu Leu Lys Arg
      50           55           60
Val Arg Gly Gly Leu Xaa Pro Thr Cys Ala Leu Trp Arg Asp Cys Ser
65           70           75           80
Xaa Leu Phe Xaa Thr Gln
                85
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<210> 15

<211> 1235

<212> DNA

<213> Rattus norvegicus

<220>

<221> unsure

<222> (0)...(0)

<223> n = A, T, C or G

<400> 15

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tcttctaagg catctaggaa ggaaccagtg tccttggtac tgatttactt agattcaacc 180
taagggtcca gccactgact aaggccaagg ccatttttcc atacctggga gggtagagat 240
tcagggttgt gggtaagtgg gcactaaaca tggatttgca agggaaaacg acagggcac 300
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gagctaaatt tgaatttaca tgaaattctg aaatgtactt gtatgaagaa actgttatct 360
gaaacctaac ttaaatgggc atcctgcctt ttgtctggtg agaaatgaaa gtgatctaca 420
ataagtgtca aagcaacaag gccctctggt atatgtctag gccaggatga ggatactaag 480
tgccttcaaa gcgagaggga ggcaggccaa gaacactgcc ctactgaaag gcaggcttgg 540
ccggctaggg cctccaaggc cctgatccct gaggcaccac agccacaact tgtgtaggcc 600
tggcccaggt cagtgaatag gttctaggca gtggttctca accttcctaa tgctgcaacc 660
cttcaataca gtttctcctg ttgtagtaat ccccaaccat aaaattatct tcattgcgac 720
ttcataactg gacttttgct actggtatga atcataatgt aaatattttt tggagctaga 780
ggtttaccaa gggggttgtg agccataggt tgaaaacat tggtctagga atagctccag 840
gggtggtttc tgaggccccc gcaagggtgg atctatgggg cagggttggg tcttctccaa 900
gagcccccac caggatatat atatatatat atatatatat atatatatat atatatatat 960
atatactttg atagcatccc atggaacgac tgtctcctga tactaaaggg agcttggaag 1020
aaaccaaggc tgagagaagt tgtagagtgg gaaggtaggc gaagggattg aggtgacaca 1080
gtgatagccc cttcagggtg gggcttacct nagacagcag ataaaggcct taggatggga 1140
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ttcaaaaaaa aaaaaaaaaa aaaaaaaagc ggncc 1235

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<210> 16

<211> 36

<212> PRT

<213> Rattus norvegicus

<400> 16

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Met Ser Met Lys Met Asn Pro Gly Asp Lys Asp Lys Met Leu Leu Phe
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Ser Pro Pro Phe Asp Pro Cys Leu Leu Arg His Leu Gly Arg Asn Gln
             20             25             30
Cys Pro Trp Tyr
             35

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<210> 17

<211> 633

<212> DNA

<213> Rattus norvegicus

<400> 17

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tttttttttc ttttcttttt ttttgagctt ggggaccgaa cccagggcct tgttgctcta 180
ccactgagct aaatcccccac cccctgttgt gtgttttaaa taagtctctt actgtccatt 240
ttgtaattag tgttgttacc ttgtaataat agacatcata caaagtttcc tcttttttgt 300
gccagtgtcg agaacatgag aaacatttaa tgagtatttg tttgttaaata aatattttata 360
acggctagaa tggcagacac acatggtagc acatgatggt gattttcggg ggccttttgt 420
ttgtctagag ctggtaatct ctgccggttg gtttgctttg cctgggtctgg gactaacctc 480
acattttctc actcttgctt tccgagagat tagtcaccc tccgtgccta ctgggctctc 540
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<210> 18

<211> 83

<212> PRT

<213> Rattus norvegicus

<400> 18

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Met Val Ala His Asp Gly Asp Phe Arg Gly Pro Phe Val Cys Ser Glu
 1             5             10             15

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			20					25					30		
Ser	His	Phe	Leu	Thr	Leu	Ala	Phe	Arg	Glu	Ile	Ser	His	Pro	Ser	Cys
		35					40					45			
Pro	Thr	Gly	Leu	Ser	Ile	Ala	Leu	Ile	Ser	Ile	Leu	His	Phe	Asn	Pro
	50					55					60				
Ser	Glu	Gly	Val	Arg	Arg	Arg	Gly	Ser	Leu	Gly	Gln	Cys	Asp	Gly	Tyr
65					70				75					80	
Leu	Gln	Asn													

<210> 19  
 <211> 607  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <221> unsure  
 <222> (0)...(0)  
 <223> n = A, T, C, or G

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 atctgtctcg gctgaattac tctcaccogt ttccattctg tgtgcaccag aaatctgaga 180  
 tccaggagta tcaacagcaa agatgtctaa tgagccaccc cctccttalc caggagggcc 240  
 tacagcccca ctactggagg aaaaaagtgg agccccacat accccaggcc gaacctttcc 300  
 agctgtgatg cagccaccac caggcatgcc actgccctct gttgacattg ccccccgcc 360  
 ctatgagccg cctggccatc cagggcctaa gcctgggttw atgccccca cnttaccaca 420  
 cattcnaana accttnntnt gtaaaagtta aataanaang gagggattcg anccccctnc 480  
 aacnggtttc aagccaattt ymtaaccatt ttgttttttt cwtttaaaaa aaaaaaaaaa 540  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggggaaaaaa aaaaaaaaaa aaaaaaaggg 600  
 gggcccc 607

<210> 20  
 <211> 82  
 <212> PRT  
 <213> Rattus norvegicus

<220>  
 <221> UNSURE  
 <222> (0)...(0)  
 <223> Xaa = any amino acid

<400> 20  
 Met Ser Asn Glu Pro Pro Pro Tyr Pro Gly Gly Pro Thr Ala Pro  
 1 5 10 15  
 Leu Leu Glu Glu Lys Ser Gly Ala Pro His Thr Pro Gly Arg Thr Phe  
 20 25 30  
 Pro Ala Val Met Gln Pro Pro Pro Gly Met Pro Leu Pro Ser Val Asp  
 35 40 45  
 Ile Ala Pro Pro Pro Tyr Glu Pro Pro Gly His Pro Gly Pro Lys Pro  
 50 55 60  
 Gly Xaa Met Pro Pro Thr Leu Pro His Ile Xaa Xaa Thr Xaa Xaa Cys  
 65 70 75 80  
 Lys Ser

<210> 21  
 <211> 1456  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <221> unsure  
 <222> (0)...(0)  
 <223> n = A, T, C, or G

<400> 21  
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 tgattgcgga agaaaaatac agacaacaaa ggaagagct tgagaaacag agacgggaga 120  
 gttcttgcca tagcatcatc aaaacagaaa cccagcaccg cagcttatca gagaaagaga 180  
 aagaaacaga gttacaaaaa gcagctgagg caatgtccac tcccagaaaag gattcagact 240  
 tcactagggc acagcccaac ctggaaccta aaagcaaggc tgtgatcgcc agtgaatgct 300  
 ctgaaagcca gctctctaca gcttccgcat tgacagtcgc taccgagagg ctccagcatg 360  
 ttctagccgc ttcagacgat aagcttacct tgcgacggga aggcacacag aactcaagtg 420  
 acaccctaca atcgaaaaca gcttgtgaga ttaaccagag tcacaaggaa tgtaggacag 480  
 agcaaacatt tgagcaaacac gtggagaagt tgcccttccc ccaaaccaaa cccatttccc 540  
 cgagtttcaa agtgaaaact atcaggcttc cagctctaga tcatacgctg actgaaacag 600  
 atctcagttc tgaacgccgc gtaaaagcaat ccgaaattga cgttcaaacc agtactaaag 660  
 aatgaataa ggaaattaag aaaaccgaag tgagcacaca gtgtgataat aagcaatctg 720  
 tggctgaaaa atatitttcaa ttacctaaaa cagagaaacg ggtgacggta caaatgcca 780  
 aagactatgc agcgaagaat catcaaagca aactccaaac agttcccaag aagcatggag 840  
 gattggggga gtttgacaga gggaatgtcc tggggaggga aggaaaaaat caggactcct 900  
 ccatgagcag tacaaaaagaa agcagggtaa tagttgaaaag aaagcaagaa catctacagg 960  
 accagagcgt accaaggtta gtccaacaaa agattatcgg tgaaagcctg gactcacggg 1020  
 ttcagaattt tcagcagaca caaacacaaa cttctaggat tgagcataaa gaactgtccc 1080  
 aaccttacag tgagaaaaaa tgtcttagag acaaggacaa acaacaaaaa caggtctcct 1140  
 ctaacactga cgattcaaag caagagataa cacaaaaaca atcttcattt tcctctgtga 1200  
 gagaatccca gcaggatgga gaaaaatgtg ccataaaaat attggaattc ttgagaaaac 1260  
 gtgaagaact acagcagatt ttgtctaggg taaaacagtt tgaagcagat tcaaataaaa 1320  
 gtggccttaa aacatttcag acactgttaa atattgctcc ggtgtggctg ataagtggag 1380  
 agaaaagaga atatggagtt cgtgttgcca tggagaataa ttagaaaaaa taaaaaaaaa 1440  
 aaaaaaaaaa ggcgnc 1456

<210> 22  
 <211> 462  
 <212> PRT  
 <213> Rattus norvegicus

<400> 22  
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 Gln Gln Arg Glu Leu Glu Lys Gln Arg Arg Glu Ser Ser Cys His  
 20 25 30  
 Ser Ile Ile Lys Thr Glu Thr Gln His Arg Ser Leu Ser Glu Lys Glu  
 35 40 45  
 Lys Glu Thr Glu Leu Gln Lys Ala Ala Glu Ala Met Ser Thr Pro Arg  
 50 55 60  
 Lys Asp Ser Asp Phe Thr Arg Ala Gln Pro Asn Leu Glu Pro Lys Ser  
 65 70 75 80  
 Lys Ala Val Ile Ala Ser Glu Cys Ser Glu Ser Gln Leu Ser Thr Ala



<223> n = A, T, C, or G

<400> 23

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atgtccacag agccttttgca ctgctgaaca gtcaccctga tccaaaccaa gtaaatggga 180
ctccaactgc accaagcagt ggcctcccag tcacctctgc tgagctcttg gtgccggcag 240
agatggcttc tgcagagtca ggtgaagacc caagtcatgt ggttgggggaa acgcctcctt 300
tgaccttgcc agccaacctc caaacctgc atccgaacag accaacgttg agtccagaga 360
gaaaacttga atggaataac gacattccag aagtgaatcg tttgaattct gaacactgga 420
gaaaaactga ggagcagcca ggacgggggg aggtgcttct ccccgaaagt gacgtcagt 480
gcaacggtat gacagagctg ttgcccacg gtcggcacca acaaaagcgt cccacgatg 540
cggggccaaga ggaccatgct tttgaagatc aattgcatcc tctcgtccac tctgacagaa 600
ctcccgttca tcgggtgttc gatgtgtccc acttgagca gcctgttcac tccagccacg 660
tggaaggaaat gttggccaag atggagggga tggcacaag gagtgggcac caagtctcga 720
aggcagcgcc tcctctccag tcacttcttg cttagattac atgttgccca acaatgtttc 780
tttccatgtt ttgattagta aactaactcg tggtggaat catgactccc aaccttctga 840
gtccccccgg gtacgcttgc accgtagacg ctcatgtgcg caccgtgcmg gtgatgctca 900
cacacagact cattgttaatt caccgtttta ccgagaaggg gggggggggc aatttttctgt 960
gttgatgctt tgttttttgt actaaaacag nattatcttt tgaatattgt agggacatga 1020
gtatataaag tctatccagt caaaatggct agaattgngc ctttgtaagt tttaaaaact 1080
tgatgccac atgagtctgt gagcacatnt ttcccgctg cctaacggag ttggaatttg 1140
tttctaacca ctgtaattct tcaacatcat cacctttgtt tcagtgattt tgcactttga 1200
gtttggatac tgtgtctgct tggttggtag tgttagtatt tttcttttaa acaggcttat 1260
cagagttgca cactttgtcc taggcagggc aaaggaatag acgccagca aggacacaca 1320
gtataggtaa catactgctt atcgtacgct tttcccacaa agcattgcat gtgtttttac 1380
ctcgacgtgc taaagttgat tagcagaaaag gcatgactca caatttttgt ggtaaaaaat 1440
aaacctgag ggagcaagca ataactaaaa caagattgag ctgctctctc tgtgcttact 1500
aaatagatgc tcgccctgct aatgcttgcc ctcttgaaaag aagaaacagg atgcacactg 1560
ctttatttca atcttctctt ttttttcttg gtttcaccag tgagcgtaag cattggaaaa 1620
atatgtgtag tcttatcttt ctataagacg attttaataa actaaaatca caaatgctgt 1680
aaagtttgtg cgcaccagaa tggaggctaa cttcataaac attgtgctgt gcgaatattc 1740
ctaaaatgat ccccaagctg tggttttcta gaagacatag ttcagaaccg cttttgaaaa 1800
atctgtctc gtgagctcac tcagtttctg tcggactttt agagacagtg gaaggattac 1860
ctcattgaga cgtttccgtg tcctcttcaa ctccacaggg tcttgacggt ggctttgttt 1920
ttccttctag actattcaaa catgtagata agttatattt ttctttaagt gtttaaagta 1980
aacacttttc aaaaaaaaaa aaaaaaaaaa aaaaagcggc cgc 2023
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<210> 24

<211> 170

<212> PRT

<213> *Rattus norvegicus*

<400> 24

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20          25          30
Arg Pro Thr Leu Ser Pro Glu Arg Lys Leu Glu Trp Asn Asn Asp Ile
35          40          45
Pro Glu Val Asn Arg Leu Asn Ser Glu His Trp Arg Lys Thr Glu Glu
50          55          60
Gln Pro Gly Arg Gly Glu Val Leu Leu Pro Glu Gly Asp Val Ser Gly
65          70          75          80
Asn Gly Met Thr Glu Leu Leu Pro Ile Gly Arg His Gln Gln Lys Arg
85          90          95
Pro His Asp Ala Gly Pro Glu Asp His Ala Phe Glu Asp Gln Leu His
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Leu	Ser	Phe	Leu	Leu	Gly	Phe	Ser	Ala	Gly	Ser	Ala	Leu	Asn	Trp	Arg
		20						25					30		
Glu	Gln	Glu	Gly	Lys	Glu	Val	Trp	Asp	Tyr	Val	Thr	Val	Arg	Glu	Asp
		35					40					45			
Ala	Arg	Met	Phe	Trp	Trp	Leu	Tyr	Tyr	Ala	Thr	Asn	Pro	Cys	Lys	Asn
		50				55					60				
Phe	Ser	Glu	Leu	Pro	Leu	Val	Met	Trp	Leu	Gln	Gly	Gly	Pro	Gly	Gly
65					70				75					80	
Ser	Ser	Thr	Gly	Phe	Gly	Asn	Phe	Glu	Glu	Ile	Gly	Pro	Leu	Asp	Thr
			85					90						95	
Arg	Leu	Lys	Pro	Arg	Asn	Thr	Thr	Trp	Leu	Gln	Trp	Ala	Ser	Leu	Leu
			100					105					110		
Phe	Val	Asp	Asn	Pro	Val	Gly	Thr	Gly	Phe	Ser	Tyr	Val	Asn	Thr	Thr
		115					120					125			
Asp	Ala	Tyr	Ala	Lys	Asp	Leu	Asp	Thr	Val	Ala	Ser	Asp	Met	Met	Val
		130				135					140				
Leu	Leu	Lys	Ser	Phe	Phe	Asp	Cys	His	Lys	Glu	Phe	Gln	Thr	Val	Pro
145					150					155					160
Phe	Tyr	Ile	Phe	Ser	Glu	Ser	Tyr	Gly	Gly	Lys	Met	Ala	Ala	Gly	Ile
			165					170						175	
Ser	Leu	Glu	Leu	His	Lys	Ala	Ile	Gln	Gln	Gly	Thr	Ile	Lys	Cys	Asn
			180					185					190		
Phe	Ser	Gly	Val	Ala	Leu	Gly	Asp	Ser	Trp	Ile	Ser	Pro	Val	Asp	Ser
		195					200					205			
Val	Leu	Ser	Trp	Gly	Pro	Tyr	Leu	Tyr	Ser	Val	Ser	Leu	Leu	Asp	Asn
		210				215					220				
Lys	Gly	Leu	Ala	Glu	Val	Ser	Asp	Ile	Ala	Glu	Gln	Val	Leu	Asn	Glu
225					230					235					240
Lys	Gln	Gly	Leu	Leu	Gln	Gly	Ser	His	Ser	Ala	Val	Gly	Glu	Ser	Arg
			245						250					255	

Asn Asp His

<210> 27  
 <211> 630  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <221> unsure  
 <222> (0)...(0)  
 <223> n = A, T, C, or G

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 aaggatcctc cggttccttca gagacctggg tggagagcat tagggacacg aagaacagag 180  
 tagcgaaga agagtctta agtaataagt ttacctcctg actggctcac atcactgcct 240  
 tactctgtag aaagcaggtc atctcatgga tttcccctc ccaccccccc agctggatca 300  
 ttttttgact cagggaataa aattaaatta ttgtccaact gttagtgttg atcggtaaca 360  
 gcagaaaggc agaaagtcc tgataatctc aatattatct tttcaaaagt attttcctgg 420  
 aatgttgttt gctttggcat tacaaagttc tgtactctta aaaatatatt gacttgctgg 480  
 gcatggaggt cacaccttta atccagaggc aggcattgat ccacaggagt tcaaggccgc 540  
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<210> 28  
<211> 30  
<212> PRT  
<213> Rattus norvegicus

<400> 28  
Met Ser Glu Lys Glu Lys Gln Asp Trp Leu Lys Asp Pro Pro Phe Leu  
1 5 10 15  
Gln Arg Pro Gly Trp Arg Ala Leu Gly Thr Arg Arg Thr Glu  
20 25 30

<210> 29  
<211> 445  
<212> DNA  
<213> Rattus norvegicus

<400> 29  
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tatatcagat ctgaaatata ttaaaattat cacttgcatt gtaaattact attcctttcg 180  
cagaaataat gaatgcttca agaaaaaaaa aagctgtttg tattgggtttt aaaacgtttc 240  
caaacaccaa ttattcttta cttaagtcac cccgatctagt tattaaatta ttattactgc 300  
cttcacacta tcaaagatgg taaatatctg atagaatcat attcaaaaata cttctgtttc 360  
acatttcttg agaaagtact gactgtctga gttctttctc aagaaatgtg aaacagaagt 420  
attttgaatc gaaggggttc gctag 445

<210> 30  
<211> 39  
<212> PRT  
<213> Rattus norvegicus

<400> 30  
Met Leu Cys Ile Ser Asp Leu Lys Tyr Leu Lys Ile Ile Thr Cys Ile  
1 5 10 15  
Val Asn Tyr Tyr Ser Phe Arg Arg Asn Asn Glu Cys Phe Lys Lys Lys  
20 25 30  
Lys Ser Cys Leu Tyr Trp Val  
35

<210> 31  
<211> 273  
<212> DNA  
<213> Rattus norvegicus

<220>  
<221> unsure  
<222> (0)...(0)  
<223> n = A, T, C, or G

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atcccaaagc tgtatactta gattggattc aataaaaaag ttaagtttac tnaanaaaaa 180  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaanaaaaa aaaaaaaagg 240  
aaaaaaaaaa ncggnncnaa aaaagnggc cgc 273

<210> 32  
 <211> 2077  
 <212> DNA  
 <213> Rattus norvegicus

<400> 32  
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 gagggcaagg aaggagaggg gaagcgaaag catatcctaa aacatttact taaaggagga 180  
 aagaaaaggg gtcgcagaaa tggctggggc aattatagaa aacatgagca ccaagaagct 240  
 ctgcattgtt ggagggattc ttctggtttt ccaaactcgtt gcctttcttg tgggaggctt 300  
 gatcgctcca gcaccacaa cggcagtgct ctacgtggca gcaaaatgtg tggatgtccg 360  
 gaagaaccac cataaaacaa gatggctgat gccctgggga ccaaacaagt gtaacaagat 420  
 caatgacttc gaagaagcaa ttccaaggga aattgaagcg aatgacattg tgttttctgt 480  
 acacattccc ctcccttcta tggagatgag cccatggttc cagtttatgc tgtttatcct 540  
 gcagatagac attgctttca agctaaacaa ccaaacaga gaaaatgcag aagtttccat 600  
 ggatgtttcc ctgggttacc gtgatgatat gttttctgag tggactgaaa tggcgcacga 660  
 aagagtacca cgtaaaactca gatgcacttt cacatcccc aagaccccag agcatgaagg 720  
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 ttaccttcta aatatccggc tacctgtaaa tgagaagaag aaaatcaatg ttggaattgg 840  
 ggaaataaag gacattcggg tgggtgggaat ccacaaaat ggaggtttca ctaagggtatg 900  
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 aacagaactg gctatggctt tcatcattgt ggcaggtatc tgcctctgcc tctacttcct 1380  
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 atcccataag aactatgggg aagaccagtc taatggtgac ctgggtgtcc acagcgggga 1740  
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 gacccgtaaa gaagcacagg agtagtaggc tatggcattc atcctcaggg caggtgatga 1860  
 agccaagttg ctggtgcatg ctgacctca tgaatatgct ttcgtatctt tatgtcccag 1920  
 gatcattttt atcctgtcac gtttacaaga acatttctga catgcatacg tttactttta 1980  
 ccatgtatta gttactttta tatttctgtg ataaaacacc atgagaaata caatttacag 2040  
 aagcaaaaaa aaaaaaaaaa aaaaaaaag cggccgc 2077

<210> 33  
 <211> 541  
 <212> PRT  
 <213> Rattus norvegicus

<400> 33  
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 Gly Leu Ile Ala Pro Ala Pro Thr Thr Ala Val Ser Tyr Val Ala Ala  
 35 40 45  
 Lys Cys Val Asp Val Arg Lys Asn His His Lys Thr Arg Trp Leu Met  
 50 55 60



Pro	Trp	Gly	Pro	Asn	Lys	Cys	Asn	Lys	Ile	Asn	Asp	Phe	Glu	Glu	Ala	
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Ile	Pro	Arg	Glu	Ile	Glu	Ala	Asn	Asp	Ile	Val	Phe	Ser	Val	His	Ile	
				85					90					95		
Pro	Leu	Pro	Ser	Met	Glu	Met	Ser	Pro	Trp	Phe	Gln	Phe	Met	Leu	Phe	
			100					105					110			
Ile	Leu	Gln	Ile	Asp	Ile	Ala	Phe	Lys	Leu	Asn	Asn	Gln	Ile	Arg	Glu	
		115					120					125				
Asn	Ala	Glu	Val	Ser	Met	Asp	Val	Ser	Leu	Gly	Tyr	Arg	Asp	Asp	Met	
		130				135					140					
Phe	Ser	Glu	Trp	Thr	Glu	Met	Ala	His	Glu	Arg	Val	Pro	Arg	Lys	Leu	
145					150					155					160	
Arg	Cys	Thr	Phe	Thr	Ser	Pro	Lys	Thr	Pro	Glu	His	Glu	Gly	Arg	His	
				165					170					175		
Tyr	Glu	Cys	Asp	Val	Leu	Pro	Phe	Met	Glu	Ile	Gly	Ser	Val	Ala	His	
			180					185					190			
Lys	Tyr	Tyr	Leu	Leu	Asn	Ile	Arg	Leu	Pro	Val	Asn	Glu	Lys	Lys	Lys	
		195					200					205				
Ile	Asn	Val	Gly	Ile	Gly	Glu	Ile	Lys	Asp	Ile	Arg	Leu	Val	Gly	Ile	
		210				215					220					
His	Gln	Asn	Gly	Gly	Phe	Thr	Lys	Val	Trp	Phe	Ala	Met	Lys	Thr	Phe	
225					230					235					240	
Leu	Thr	Pro	Ser	Ile	Phe	Ile	Ile	Met	Val	Trp	Tyr	Trp	Arg	Arg	Ile	
				245					250					255		
Thr	Met	Met	Ser	Arg	Pro	Pro	Val	Leu	Leu	Glu	Lys	Val	Ile	Phe	Ala	
			260					265					270			
Leu	Gly	Ile	Ser	Met	Thr	Phe	Ile	Asn	Ile	Pro	Val	Glu	Trp	Phe	Ser	
		275					280					285				
Ile	Gly	Phe	Asp	Trp	Thr	Trp	Met	Leu	Leu	Phe	Gly	Asp	Ile	Arg	Gln	
		290				295					300					
Gly	Ile	Phe	Tyr	Ala	Met	Leu	Leu	Ser	Phe	Trp	Ile	Ile	Phe	Cys	Gly	
305					310					315					320	
Glu	His	Met	Met	Asp	Gln	His	Glu	Arg	Asn	His	Ile	Ala	Gly	Tyr	Trp	
				325					330					335		
Lys	Gln	Val	Gly	Pro	Ile	Ala	Val	Gly	Ser	Phe	Cys	Leu	Phe	Ile	Phe	
			340					345					350			
Asp	Met	Cys	Glu	Arg	Gly	Val	Gln	Leu	Thr	Asn	Pro	Phe	Tyr	Ser	Ile	
		355					360					365				
Trp	Thr	Thr	Asp	Val	Gly	Thr	Glu	Leu	Ala	Met	Ala	Phe	Ile	Ile	Val	
		370				375					380					
Ala	Gly	Ile	Cys	Leu	Cys	Leu	Tyr	Phe	Leu	Phe	Leu	Cys	Phe	Met	Val	
385					390					395				400		
Phe	Gln	Val	Phe	Arg	Asn	Ile	Ser	Gly	Lys	Gln	Ser	Ser	Leu	Pro	Ala	
				405					410					415		
Met	Ser	Lys	Val	Arg	Arg	Leu	His	Tyr	Glu	Gly	Leu	Ile	Phe	Arg	Phe	
			420					425					430			
Lys	Phe	Leu	Met	Leu	Ile	Thr	Leu	Ala	Cys	Ala	Ala	Met	Thr	Val	Ile	
		435					440					445				
Phe	Phe	Ile	Val	Ser	Gln	Val	Thr	Glu	Gly	His	Trp	Lys	Trp	Gly	Gly	
		450				455					460					
Val	Thr	Val	Gln	Val	Ser	Ser	Ala	Phe	Phe	Thr	Gly	Ile	Tyr	Gly	Met	
465					470					475					480	
Trp	Asn	Leu	Tyr	Val	Phe	Ala	Leu	Met	Phe	Leu	Tyr	Ala	Pro	Ser	His	
				485					490					495		
Lys	Asn	Tyr	Gly	Glu	Asp	Gln	Ser	Asn	Gly	Asp	Leu	Gly	Val	His	Ser	
			500					505					510			
Gly	Glu	Glu	Leu	Gln	Leu	Thr	Thr	Thr	Ile	Thr	His	Val	Asp	Gly	Pro	

	515		520		525
Thr	Glu Ile Tyr Lys Leu	Thr Arg Lys Glu Ala	Gln Glu		
	530	535	540		

<210> 34  
 <211> 755  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <221> unsure  
 <222> (0)...(0)  
 <223> n = A, T, C, or G

<400> 34  
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 aggtagctga ggttgcagtc ttgggtgccc actgctgtgc atctgtcttg ttatctaccc 180  
 ctactttggg ctgacaactg cagggttggg tgtaggctgt ctactgcat gccgggaagc 240  
 tggagaagct ccacgggaac attgagggcc atggctttga gacactgcag agcatccttg 300  
 gtctctgtaa ccacgtcacc taaccctgac aattccagac ccttcttcca ttgtccttgt 360  
 gaaccatttg ggcttatctt tccctcttag tgcgaagggt caaaccaagg gtcagtcaag 420  
 tagatgactg tcaccctggg cctccccaga ctctgctgcc ggggttggga gaccaaagta 480  
 gaaactgcc aacacaggcc ccaggatgag gtctctgttc tgtggacctg ctccccagat 540  
 acaggcctca gacccatagg acgtggcccg tgctcagga cacccaatcc ccggcctcac 600  
 tccatcgagt actgacttct ttctctagt ccttgggggt ctccatcctt cagttatggt 660  
 atgaagaatc tatgcaaaact gtataagctt ctgctcacca ataaacgctt tatttaaagc 720  
 ttannnnnnn nnnnnnnnnn nnnnnaagcg gncgc 755

<210> 35  
 <211> 30  
 <212> PRT  
 <213> Rattus norvegicus

<400> 35  
 Met Arg Lys Ala Gln Asn Val Leu Ser Leu Cys Arg Gly Ser Val Leu  
 1 5 10 15  
 Arg Gly Gly Ser Leu Gly Gly Ser Lys Ala Arg Met Ala Lys  
 20 25 30

<210> 36  
 <211> 1310  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <221> unsure  
 <222> (0)...(0)  
 <223> n = A, T, C, or G

<400> 36  
 tctagcgaac cccttcgcag aaacccaaag ttacagacca gaccctaccc aacatccagt 60  
 cagcaatcca gctggagaaa cgcttgagat gacaaggac tttcagaagc aagccttgat 120  
 aagacaggaa aagcagaatt ctaataaaga tatgaggaaa aatgacatgg gccttcaacc 180  
 tctgcctgta gggaaggacg cacacagtgc accaggagtg acagtctctg ggaaaaacca 240

```

caaaagaact caggcacctg acaagaaaaca gagaattgat gtttgtctag aaagccagga 300
cttttctaag aagacaaaata cttccaagga gttaaaaaat gcaatggaga ggtcctttta 360
tccagtcaac ctttccctga ctgtggtgta aaagaaaatg aggacgccct tctctccatc 420
ttcccctcct tcttctcctt ccaattgcgt catctgaaat tgaatttcct ctcctcctcc 480
accacata atgctgtgcc tgaaaaaaat gagtttcctc cctcatcacc cacagagaag 540
tcaagggctg aacttgagag cctcccaacc ctgcctcttc ctccaccacc aggagatgag 600
aaatctgac aggaatgtct accaaccatcc ctacctcctc cccctcccac agctccatcc 660
caaccagcac atcttctttc ctcctctgtt ctagaacatc acagtgaagc attttttaca 720
cagtattccc gaaaaaaaac cttggactct catcggtctc actcacaggc taaaatccta 780
acaggaaaat caccaccccc aacactcccc aaacccaaac ttcccagag aatcaaagct 840
aagatgagcc aggattcacc aagcggtgaa ttggaaaagat ctctgtcaga tgtggaaatt 900
aaaactaccc tctcaaaagga tcagaaaagt tcgctggtgg cagaaagccg tgagcacaca 960
gaggccaagc aagaagtatt ccgaaaaagc cttggaagaa aacagctgtc cattagctct 1020
gcaaaactccc tctctcagac agttccagaa atcccagcac ccaaggaaaa acagacagca 1080
ccccttggtta aatctcactc attcccata gggttcagaa aacaaaagtcc taagccttac 1140
atgagaaaaa ttaagacacc cttaatgatt gcggaagaaa aatacagaca acaaagggaa 1200
gagcttgaga aacagagacg ggagagttct tgccatagca tcatcaaaac agaaacccag 1260
caccgcagct tatcaaannt taaaaaaaaa aaaaannnag cggncgcccc 1310

```

<210> 37

<211> 100

<212> PRT

<213> Rattus norvegicus

<400> 37

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Met Thr Arg Asp Phe Gln Lys Gln Ala Leu Ile Arg Gln Glu Lys Gln
 1          5          10          15
Asn Ser Asn Lys Asp Met Arg Lys Asn Asp Met Gly Leu Gln Pro Leu
 20          25          30
Pro Val Gly Lys Asp Ala His Ser Ala Pro Gly Val Thr Val Ser Gly
 35          40          45
Lys Asn His Lys Arg Thr Gln Ala Pro Asp Lys Lys Gln Arg Ile Asp
 50          55          60
Val Cys Leu Glu Ser Gln Asp Phe Leu Met Lys Thr Asn Thr Ser Lys
 65          70          75          80
Glu Leu Lys Met Ala Met Glu Arg Ser Phe Asn Pro Val Asn Leu Ser
 85          90          95
Leu Thr Val Val
100

```

<210> 38

<211> 774

<212> DNA

<213> Rattus norvegicus

<220>

<221> unsure

<222> (0)...(0)

<223> n = A, T, C, or G

<400> 38

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attaatgggg ggaagtatgt ttatgtggga tttatccact tcttttagat tctcctacct 120
gttgatctgt aattattcct agtagtctct tagagtctct agaagcatgc tgttaccgct 180
aatatttcct tttggttttg atcttactta aacatattgt ttccttactc tctttttcat 240
cccagcttgt ctaactgaaa ggccagaccc aacttgatct atccctttta aacttcatgt 300

```

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cttggcctgt tgatttctct gctccagggtg tcaccgaagg ggttcgccta gcgaaccct 360
tcgtaacagc caagggtttt gagacagagg tttcaacagc attcctggag gagacacaaa 420
ggacagatga gtcacatgaa ggatgggagg agggaagggtg gctgttgata ggtattttga 480
gacactctat ttgagtccta cacaacactc cccctcccc ccaaaccatt tttatgtcta 540
ttgacctttc ctctagtcac acagggaaat tcacagttac ctacaaagaa ccactaattg 600
taacaagtca agaggaaact tatttttgat aatgactcat tgaagatgtt ttgaaaattt 660
aaaaataagc tctgttagca gaagtctgtn ngaaaagcan gaaggaantg tttgtttatt 720
anataaataa aaggcggcga ggacaacaaa aaaaaaaaaa aaaaaagcgg ccgc 774

```

<210> 39  
 <211> 65  
 <212> PRT  
 <213> Rattus norvegicus

```

<400> 39
Met Ser Trp Pro Val Asp Phe Ser Ala Pro Gly Val Thr Glu Gly Val
 1           5           10          15
Arg Leu Ala Asn Pro Phe Val Thr Ala Lys Val Phe Glu Thr Glu Val
          20          25          30
Ser Thr Ala Phe Leu Glu Glu Thr Gln Arg Thr Asp Glu Ser His Glu
          35          40          45
Gly Trp Glu Glu Gly Arg Trp Leu Leu Ile Gly Ile Leu Arg His Ser
          50          55          60
Ile
65

```

<210> 40  
 <211> 1259  
 <212> DNA  
 <213> Rattus norvegicus

```

<400> 40
tctagcgaac cccttcgcga aggggttcgc cgaaggggtt cgcttcagga gttaatgtag 60
acttgactta agcatcctga tttaaccaag aatggtggca cacaacttta acccccatgc 120
tggggaagca gaggcacact taatctgtgt gagtcccagg ccatccaggg ataccgtagt 180
agtgagaccc tgtctcacia aacaaagaat ggggaatttag ggctggtggg gctcagcatg 240
caactgtgcc tgttacctag tctggcctga gttcaattcc caagactcaa tgtatgagga 300
gagaaaacgat ttctgaactc attcattgat ctccaaatgt gtggtatagg tgcccttccc 360
ttaaataaaa caaacaacaa aaaaacaaca aaaacaacaa accccaata aatgtatatt 420
taatttttaa agactgtact tgggcatggt acttcacatc tacagttacg acattctaga 480
ggctcaggcc tgggaattgc tatgaatttg aggccagtct gggtagagt gacttctcat 540
ctaggcagga ctacgtaata agtctttgcc caaaaataaa cagcaacca aataagagca 600
acaagaattc tccctccaaa tagtaacctg ggcttgaga gacagcttag caactgagtg 660
cttgccgagc catcgaggac tggagtctgg attccagcac ccgtgtgaca gacaagctgg 720
gcgttcactc atgctgatga accccaaggc tgaggagaca ctgactcttc tctggccctg 780
ttcatgctgt ccacagggtc ccaagtagca gttaagtaga ctgtcagaca acatggctgg 840
ctttttaagc aagaacagta actgaagaaa tacacttttg aagtactgtt aattttgctt 900
aaaacttggg agggagctgg aggatggctc agtggttaag agcactgact gctctccag 960
aggtcctgag ttcaattccc agcaaccaca tgggtggctc caaccatctg taatgagctc 1020
tgatgccctc tttttggtgt gtctgaagac agcgacagtg tactcatata aaataaaaa 1080
aatctttttt ttttttaaaa gaaatttgct agagatatgg caggaagggt atatttttac 1140
ctattttacct ggtgggctaa tcctgggtatt tttttcaaaa ttaagatact atataggagc 1200
cgcgaagggg tcgctaggcc agtgtgatgg atatctgcag aattcgggtta gccgaattc 1259

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<210> 41  
 <211> 42

<212> PRT  
<213> Rattus norvegicus

<400> 41  
Met Val Ala His Asn Phe Asn Pro His Ala Gly Glu Ala Glu Ala His  
1 5 10 15  
Leu Ile Cys Val Ser Pro Arg Pro Ser Arg Asp Thr Val Val Val Arg  
20 25 30  
Pro Cys Leu Thr Lys Gln Arg Met Gly Ile  
35 40

<210> 42  
<211> 777  
<212> DNA  
<213> Rattus norvegicus

<400> 42  
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gctcttagta ctgttctttt ctaagattct tctaatatga cacattaaga ctttcttaaa 120  
atgtacaact gctacgctga tctaaacatt caaagtgcac acatttcgct atgaagccac 180  
gtgaccagag tcctggggac taatttctgt cttagtcaga ttcctattgc tatatgaaga 240  
aataccatga tagtgtcaac ttttataaag aaaaagtatt cctttgggaa tagtttaaag 300  
gatcagaggg ttagtgcatc atcatcacag caggaagcgt ggcagtggga gccagattt 360  
ctatatccag attttcatga agcatgacga gagctcctgg gcctggcgcg agcttctgaa 420  
acctgaaaagt gacatatctt ttccaataag gccacaacta ctgctataag gccacatctc 480  
ctaaactgtgt cactatctat gagcctgtac agtctatttc ttttacacca ctgcatcatc 540  
taagagctga taccgcgttaa gttagtcatg aaaatattca acttctaggg ttctgttttc 600  
ttctctataa aatattgaaa atgataatta atgtatactt tacagaactg tatttgaagt 660  
acaacttgat ggacataaat caccacagtt gggtcaaaat tgtatatata tatatatata 720  
tatatatata tatatatata tatcaaaaaa aaaaaaaaaa aaaaaaaaag cggccgc 777

<210> 43  
<211> 46  
<212> PRT  
<213> Rattus norvegicus

<400> 43  
Met Ile Val Ser Thr Phe Ile Lys Lys Lys Tyr Ser Phe Gly Asn Ser  
1 5 10 15  
Leu Lys Asp Gln Arg Val Ser Ala Leu Ser Ser Gln Gln Glu Ala Trp  
20 25 30  
Gln Trp Glu Pro Arg Phe Leu Tyr Pro Asp Phe His Glu Ala  
35 40 45

<210> 44  
<211> 1378  
<212> DNA  
<213> Rattus norvegicus

<220>  
<221> unsure  
<222> (0)...(0)  
<223> n = A, T, C, or G

<400> 44

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ctgtttgctg	aaggcttggt	tcaatggaaa	actgaaatgg	accactaat	gtctcgattc	180
ttctctcctt	cactaagtct	gtgaagtcac	cagcgttttg	tcttttggtg	gtgaataccg	240
aggagaattt	cctcaccag	tgcttcagg	agccatgatg	gctgcctcag	aataagcaca	300
gatacacttg	agcaactggt	gcagaaaacc	cgacttctaa	attattaagg	aacaggataa	360
ttgcttggtt	caataattag	aataatgtaa	ttaggataat	tgctttttaa	aaatcttccc	420
acctttcccc	ccccaaatat	taataattcc	aactaaatcc	tctggggccc	ttccagtttc	480
cacaacggaa	agagcctaac	gtattctaaa	gactgggcat	attttttttt	tccagattag	540
tgagtgttca	tgagctatta	agaggccaag	tggtttttca	agatggtgtc	atttcattct	600
aacatatcta	acatgcaaa	gacttaaaaa	aataatttgc	aaaataatct	gtttcaagtc	660
tatgaggaag	ctgaagagcc	tactccggag	gaaactccag	aagagcctcc	tagcatagag	720
gaagaagaga	tagtgaggga	agaggaggag	gaggaggtgc	ccccgcccag	aggtacagcc	780
gctttgatga	gttcagcatt	ccaaagcctt	ggtgctgctg	gaccctactc	attagccata	840
tactttcctg	gaagcacagc	cacgaggcct	ggagggtgca	cactcgtaat	gactggagct	900
ttgtgggcct	ttcctttccc	ctaacgtttc	ctccttcccc	gcaatctgac	cataaatgag	960
gagatttttt	ttttctctta	ctacactttt	tgcaatccta	gtttgcaatc	ctcagtgtgg	1020
ctggctttca	gttcaaatgc	tggagaacca	tgtatctgtg	tggtgagagc	attcattttc	1080
aagactaatt	cttaaaccgc	ttatccccgg	agacagaaac	cgtaggcagag	ttgctatcct	1140
ctgagctggg	gtggctcatga	tgatcagtta	ggttactaac	atcttcctaa	atgaatcggt	1200
gttttggtgt	gctctgtttt	catttggtatg	acagggtgtt	gttctgttta	atgcgtgtgg	1260
gtttttccaa	catgtccgta	aaaatatctt	ttaagcacca	gangtagtga	agaaagctgt	1320
gcaaacagca	cccgtcctg	tccccaagaa	awccgaggcg	cccccccaa	ggtatatc	1378

<210> 45

<211> 1554

<212> DNA

<213> *Rattus norvegicus*

<220>

<221> unsure

<222> (0)...(0)

<223> n = A, T, C, or G

<400> 45

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cccctgggta	tctccagaac	atggcaagcc	gtggatacct	gcatcacctg	ctgactgcag	180
aggagcctg	ggaggagttt	gtatcaaagg	ccaagttgcc	cagggatagg	gcagtggccc	240
tccacaaagc	actgagggat	ctgacagcac	tcttggccat	agcagaaaga	ggcagatctc	300
ggaaaggctg	gaaaggcaag	gagaagtgtg	tgaaagcatt	tccttgcttg	aaagcagact	360
tggaggagca	catcagccag	ctctatgccc	tagccgacca	tgctgaggaa	ctgcacaggg	420
gctgcaccgt	ctccaacatg	gtggctgact	ccttcagtgt	tgcttccgac	atcctgaaca	480
tctttggtct	ctttctggca	cctgagtcag	cagagggaa	tctggtgtc	tcggcagcag	540
gcttggggct	gggggtagca	gctactgtga	ctaagtgtgc	tacttcaatc	atgaaggaaa	600
caagcagggg	tttgatgga	gtcgaagctg	gtcaccatgg	ttcaaccgcc	atggatatac	660
tggaggaagc	tggcacaagt	gtggctagga	ttgccagcga	gatccctcag	gctaccagag	720
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ccaaccctcg	cctagaagaa	gatgccaggg	ccctcatcaa	tgaggtagc	atccctgccc	840
aacgggctaa	acaggtgcgg	gccagtctga	aaggaaaccc	tctggcaatg	agcaagggaag	900
accgatcccg	cagtgccacc	accactgggg	tcaccctctt	gcgtgatgtg	gggagccttg	960
tgaacgagtc	gaagcagttg	tacgaagggt	ctgcttccga	atcggcagca	gcactaagga	1020
agctggctca	ggagctggag	gagaagctag	gggagctcat	gaaattctac	gagacaatct	1080
gatcaggttt	cagccagtca	ccccatcccc	aagacatgca	gacatcangg	gagaggatct	1140
ggacagaggt	agggaccatg	gaggtgctgt	tagaaggaga	gcaagactac	agtcaggtcc	1200
gagggacata	gtgtggaggc	ctgtttgatg	aacacarcag	gttaraggat	ggagcagtg	1260
atcaaaagtga	gatccactgg	agcctgagac	sagggaccag	aggatgtgct	gcaagaggga	1320

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ctgggaaaaat tgaaatctan actaaacatg gaaaaaaggc agtttcgaaa gactagaaaa 1380
ccctcccat ctgagccatt ggaaacccca caaaacacaa accagagaga aaagtgtgtg 1440
ctctctaaac aagtcgtggc cccagttcc ccagcccact cccaccctca ggggtggcat 1500
caaataaatt gtttccattt caaaaaaaaa annaaanaaa aaaaaagcgc ccgc 1554

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<210> 46
<211> 313
<212> PRT
<213> Rattus norvegicus

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<400> 46
Met Ala Ser Arg Gly Tyr Leu His His Leu Leu Thr Ala Glu Gly Ala
1      5      10      15
Trp Glu Glu Phe Val Ser Lys Ala Lys Leu Pro Arg Asp Arg Ala Val
20     25     30
Ala Leu His Lys Ala Leu Arg Asp Leu Thr Ala Leu Leu Ala Ile Ala
35     40     45
Glu Arg Gly Arg Ser Arg Lys Gly Trp Lys Gly Lys Glu Lys Phe Val
50     55     60
Lys Ala Phe Pro Cys Leu Lys Ala Asp Leu Glu Glu His Ile Ser Gln
65     70     75     80
Leu Tyr Ala Leu Ala Asp His Ala Glu Glu Leu His Arg Gly Cys Thr
85     90     95
Val Ser Asn Met Val Ala Asp Ser Phe Ser Val Ala Ser Asp Ile Leu
100    105    110
Asn Ile Phe Gly Leu Phe Leu Ala Pro Glu Ser Ala Glu Gly Ser Leu
115    120    125
Val Leu Ser Ala Ala Gly Leu Gly Leu Gly Val Ala Ala Thr Val Thr
130    135    140
Asn Val Ala Thr Ser Ile Met Lys Glu Thr Ser Arg Val Leu Asp Gly
145    150    155    160
Val Glu Ala Gly His His Gly Ser Thr Ala Met Asp Ile Leu Glu Glu
165    170    175
Ala Gly Thr Ser Val Ala Arg Ile Ala Ser Glu Ile Pro Gln Ala Thr
180    185    190
Arg Asp Ile Thr Arg Asp Leu Glu Ala Leu Glu Gln His Met Asn Ala
195    200    205
Leu Ser Leu Val Arg Ala Asn Pro Arg Leu Glu Glu Asp Ala Arg Ala
210    215    220
Leu Ile Asn Ala Gly Ser Ile Pro Ala Gln Arg Ala Lys Gln Val Arg
225    230    235    240
Ala Ser Leu Lys Gly Thr Pro Leu Ala Met Ser Lys Glu Asp Arg Ile
245    250    255
Arg Ser Ala Thr Thr Thr Gly Val Thr Leu Leu Arg Asp Val Gly Ser
260    265    270
Leu Val Asn Glu Ser Lys Gln Leu Tyr Glu Gly Ser Ala Ser Glu Ser
275    280    285
Ala Ala Ala Leu Arg Lys Leu Ala Gln Glu Leu Glu Glu Lys Leu Gly
290    295    300
Glu Leu Met Lys Phe Tyr Glu Thr Ile
305    310

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<210> 47
<211> 1142
<212> DNA
<213> Rattus norvegicus

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<220>  
 <221> unsure  
 <222> (0)...(0)  
 <223> n = A, T, C, or G

<400> 47  
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 tcttcggtaa agccaacttt cttacacata tttcgggaag taattaacta caatttggac 180  
 ttatagttac aaggttgcct tcgaaacact gctctaaatg tgtctcgtgt tggggtgcta 240  
 ctttgcttat gtgtaaatth cacagtaatg caatagagaa aggggtgttg tgggtgtggc 300  
 ttgtgggggg gattgttttg ttgttgttgt ttgagataaa gcttcattct gtagccagga 360  
 aagcctggaa tttactgtgt catcccaggt agcttcaaac tgggtgcctat cctgcctcag 420  
 cctccaactg gttgcaattg caggagtaac ctaccacatc ctgcagctac agtgatctag 480  
 aacctccccg tcgaagcccc accaccatag aaaccaatth gcattaaagt ttagaattcc 540  
 caaccctaac aaagtthaat aaaaaaagaa aaacaaaaca agattthaat cattctttcc 600  
 ctcttcttt tttnagatnc agggctcncc tagttthnaa caaaacagtn ngcagngnng 660  
 ggnnccccng gnggggntth tttncttngn gcnctnngc ancccccccn cccaggcnng 720  
 atngggnggg gtataaaagt nttancnggc anatgnnctn ggngcanacc caagtntatc 780  
 agnccctnan ttncnccca ganaactaga nanctntngc atagtanaag cccntgtgn 840  
 agattthnaa ncnctctgn cacaganana gaantctana tagaaaantc aaaatattth 900  
 ggngcccaan gtnccacc ctgtagagng ggncccaaaa ancngcncc aganagcnng 960  
 atatntgagt tntgacctnt attctttact acnacgntt gagagaatat tntgntggg 1020  
 ccctanccac atgttttgnc ccaagantgt aaanccactt naannctgng ggatatctcn 1080  
 ctgcanacag aagtgccng cggtatttht aaaaaaaaaa taaaaaaaaa aaaggngccn 1140  
 cc 1142

<210> 48  
 <211> 502  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <221> unsure  
 <222> (0)...(0)  
 <223> n = A, T, C, or G

<400> 48  
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 tgtaacacag acagaaggac attggatcat gttgaaccg caccaccaac tatgagtgat 120  
 ggtatggaaa gaatgcgaac atttaaaactg cgccaatgcg gcggccatct tgggtggagaa 180  
 gttcctagcc gagctttgat gtgatttttt tgatggtaca atgcagcgag catggccacg 240  
 ggagctttga atccagccga cagctccgag atttgccctt ccagtgtctt tgcctaccgt 300  
 agagaggact gctgagatgg gattccttgt gacaagccta cttaccttha actgccagca 360  
 tttgtaagggt gcaatcttgt gtattggttt tttattttga cagttttgaa aacatgtttg 420  
 ntgntcttg tgtttttcca gtaaaagtaa tcacaaagga aaaaaaaatt aaaaaaaaaa 480  
 aaaaaaaaaa aaaagcggcc gc 502

<210> 49  
 <211> 1426  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <221> unsure  
 <222> (0)...(0)



<223> n = A, T, C, or G

<400> 49

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gacaagggat atttgtgctg tgggtattgc atcttatgga gggctgtagc taactgggac 180
tcctgggtga cccaacagg cctttgatcc tctgtctctc cccgcttgat ctttcttacc 240
ttatgcttcc ccaagtgcag ctgaggggact acacagtggc tcccgcacca ctccaaacac 300
aggaaatcaa tctcagggag aggagataag aagtgaggag aagccaagat tcaaccaata 360
gatggtaatt gctcctggga ccgccccccc aagcatcatt tccataggaa ggactgagtt 420
tggtcctga agcccagtgg agtacctttc tctgcctgaa ttctgtttgt atccctggcc 480
aagtcctctt tccagaaacc ccacctttaa aaccagctga gaaggacctt cttctctatg 540
tttaaatagg aactttccat agcttagctt ccctgcagtc tcccagtgac ccagttaaaa 600
ttctgccata ggtcaaaaagt ggggttgaga ggtgaagtca gaggccatgc atggagctca 660
gaacgtttct aaacctcctg tgattcattg agtagccct agactctaga aggctcagat 720
gccaaaaagg ktgactttat aatttcttag ggtcttctca tgggatcgkt ttcagagtgg 780
gcattcacta aatgatagca agtttattaa ttgtttccca gygcctgac tctttatttn 840
cccagggtt ccaaccagag cccttgggtt aaagtctccc acccaccccc caccctgaga 900
cttgggtgnt ttctgagatt ccccagggat ggcaaaaattg gcattcttac agggagccct 960
gacttctagc acgttaccta gattttttac cctgctctct ctgcctattt tactatggga 1020
tactgntct ctttggactt aaggaaccac cttgaagtag agtgagggtga ccacgtgttg 1080
gtggcgaaga atataagcat tggctcctaa aagagaactt ctatgaagtc aggctgcaag 1140
ctttaacatg gcacaagttg caccttactg gctgctaagt ctggatgtca accaaaggct 1200
aactctntaa ttaaagaaaa gcaagggaga aganaagggt aagnggcttn cataaacttt 1260
attcaaaatg tctaccagga atggtggtga caccaataat cccacatgtt ggatgtngag 1320
gcaggaagaa tgatggtaag gggcatcctc actacataat gagttgaggc tngactaggt 1380
taactntgct tnaaaaaaaaa aaaaaaaaaa aaaaaaaagg gnggcc 1426
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<210> 50

<211> 985

<212> DNA

<213> *Rattus norvegicus*

<400> 50

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aaaccaagag tgcattcagag accagcaccc cagagcacca ggggtgggggt ctcctccgaa 180
gcaagatatg aaacctttc agtgcttgct ctgagcagct cagaagtaga atgcgagagg 240
acctcactgt tctgacgatg attgtccaac acacatccgg ccctctccgt gtctcctccc 300
accaccatct tctcctatca ccgggcttac tatcttctct cctggctttc ctctttctga 360
tggcggttcc tgaagcctcc aactaaccac taactcgggg agcgcctcga cagtgtttgt 420
ggctaaggct aactcagag acagagttgc agaattgagg agaccagacc cgagggacgc 480
cattgctggg aggtagactg ggtgcgagg cccttggcac aggactcaca tctgggctgt 540
tcagcttgac ccgaaggctg tgtgtgaaag ggggaaaaag acaagattgc caggcagggc 600
tgttgttttt gtggcttcga gggacaagaa cctggctaaa aggcagcagc cctgctgttc 660
ttttctcct ctgtcctgtt tcctacctta caagaagtcc atgcaaccaa ccggggctct 720
ggcacttttc ttgtttattt ccctcctggc ttccaaacaa gccctctgtg gacatcatca 780
aagcatggat aacccctct gcaggggtgg gcttcattct ccgctggctc ctgtagcctt 840
cctggacaca ggtgaaagt tgtaaaagt gtaggagtc agtagccac aggttctcct 900
tttccatct cagtctgacc aaggaggctg aactaccaac ccaaattcag cgaaaaaaa 960
aaaaaaaaa aaaaaaagcg gccgc 985
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<210> 51

<211> 58

<212> PRT

<213> *Rattus norvegicus*

<400> 51

Met Thr Ser Ser Arg Thr Thr Ser Pro Ile Thr Thr Arg Lys Lys Pro  
1 5 10 15  
Arg Val His Gln Arg Pro Ala Pro Gln Ser Thr Arg Val Gly Val Ser  
20 25 30  
Ser Glu Ala Arg Tyr Glu Thr Leu Ser Val Leu Ala Leu Ser Ser Ser  
35 40 45  
Glu Val Glu Cys Glu Arg Thr Ser Leu Phe  
50 55

<210> 52

<211> 2010

<212> DNA

<213> Rattus norvegicus

<400> 52

tctagcgaac cccttcgcgg ggacagacat ggagaaggag atggaggacc ccctggctgg 60  
agcagaccaa cagaataggc aactatggct ggagaaccgg gtatcagagt aatgcttgac 120  
ctcgggaaac accaaatttc ttcttccgat cgcagaagta gtactcggcg aaattcacta 180  
ggtaggaggc tcctcatctg ggaagaaccg gtgcctgggg ggacctggct ggataggtat 240  
gggggatcga ggccgggtccc ctagtctccg gtccccccat ggagtcctc caactctaag 300  
caccctcact ctctgtctgc tcctctgtgg acaggctcac tcccagtgc agatcctccg 360  
ctgcaatgcc gagtacgtct cgtccactct gagccttcgg ggagggggct caccggacac 420  
gccacatgga ggccggccgtg gtgggcccgc ctcaggtggc ttgtgtcgcg ccctgcgctc 480  
ctacgtctc tgacgcggc gcaccgccc caccgtccgc ggggacctcg ctttccactc 540  
cgcggtgcat ggcatagagg acctgatgat ccagcacaac tgctcacgcc aggggtcccac 600  
ggcctcgcgc ccggcccggg gtctgtccct gcccggggcc ggcccagcgc ccctgacccc 660  
agatccctgt gactatgaag cccgggtttc cagggtgcac ggtcgaaccc cgggtttctt 720  
gcattgtgct tcctttggag acccccattg gcgcagcttc cacaatcact ttcacacatg 780  
ccgctccaa ggagcttggc ccctactaga taacgacttc ctctttgtcc aagccaccag 840  
ctccccgta gcatcgggag ccaacgctac caccatccgg aagatcacta tcatatttaa 900  
aaacatgcag gaatgcattg accagaaagt ctaccaggct gaggtagaca atcttcctgc 960  
agcctttgaa gatggttctg tcaatgggg cgaccgacct gggggctcga gtttgtccat 1020  
tcaaaactgt aaccttggga gccacgtgga gattcgagct gcctacattg gaacaactat 1080  
aatcgttcgt cagacagctg gacagctctc cttctccatc agggtagcgg aggatgtggc 1140  
acgggccttc tctgctgagc aggatctaca gctgtgtgtt gggggatgcc ctccgagcca 1200  
gcgactctct cgctcagagc gcaatcgccg tggggcgata gccatagata ctgccagaag 1260  
gttgtgtaag gaagggcttc cggttgaaga tgcctacttc caatcctgcg tctttgatgt 1320  
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agtcttcttg accgatttg agaacttgca ccttttccca gtagatgcgg ggcctcccct 1440  
ctctccagcc acctgcctag tccggcttct ttcggtcctc tttgttctgt ggttttgc 1500  
tcagtaagta ggccagcaac ccgtgactag tttggaaacg gtttgaggag agaggttgat 1560  
gtgagaaaac acaaagatgt gccaaaggaa acagtgggga caggagacaa cgaccttact 1620  
caatcacacg aggttgcagt ccagggtga aatgacccta gaataaagat tctgagacag 1680  
ggttttgcac tccagacctt ggtatgggct ccccatgaat ttccccatta gtgatttccc 1740  
actttagtg aaattctact ctctgtacac ctgatatcac tcctgcaagg ctagagattg 1800  
tgagagcgct aagggccagc aaaacattaa agggctgaga tatcttaaag gcagaaacta 1860  
gaaaagggga aaccatgatt atctataaga aaatcaaaag aggggtttgg gaatttagct 1920  
cagtggtaga gcacttgcct agcaagcgca aggccttggg ttcgggtccc agctcctaaa 1980  
aaaaaaaaa aaaaaaaaaa aagcggccgc 2010

<210> 53

<211> 422

<212> PRT

<213> Rattus norvegicus

1

Le

<210> 54  
 <211> 705  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <221> unsure  
 <222> (0)...(0)  
 <223> n = A, T, C, or G

<400> 54  
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 caccagaga tctcacctgg ggtggtggga gcactctctg tcttgaggga acatgtacct 120  
 actctctcct tccacaagag ccacatacac ttagaaggtc cagtgaagat ctatgtgctt 180  
 cagaagagag gggacttgga ggtgaaaggg ggagtgggag gggggcttga ggacctanct 240  
 gaaagatttt angctgaaaag aacttccttg attcaaagac atatgtcagt ngacccaaca 300  
 atgagaatga atatgagggc caggaaaact tgtgggaatc agtctcaaga cngaaacnga 360  
 gaaagaaaaga aaagtggnta ggactcanat tggggaacct gggtagacag gagtggcnag 420  
 ggaagaaaagg gatcttgggt tntccacagt ttgagacaca tccggngntc gacctatttc 480  
 ccngaagccn kannanatgt tgcttccccn tcnntnnaat gggcctggng gtcctnctcc 540  
 ctttncctng gacatgaaaa ngntttctgc nnanataacc cccntctttc ctcccccttn 600  
 antntgtccc tacntttttg tccctttttt ttttnaaaaa annaaaataa aggggncnn 660  
 tnttccttn gaaaaaaaaa aaaaaaaaaa aaaaaaccgc cnc 705

<210> 55  
 <211> 58  
 <212> PRT  
 <213> Rattus norvegicus

<400> 55  
 Met Thr Thr Pro Arg Asp Leu Thr Trp Gly Gly Gly Ser Thr Leu Cys  
 1 5 10 15  
 Leu Glu Gly Thr Cys Thr Tyr Ser Leu Leu Pro Gln Glu Pro His Thr  
 20 25 30  
 Leu Arg Ser Ser Ser Glu Asp Leu Cys Ala Ser Glu Glu Arg Gly Leu  
 35 40 45  
 Gly Gly Glu Arg Gly Ser Gly Arg Gly Ala  
 50 55

<210> 56  
 <211> 968  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <221> unsure  
 <222> (0)...(0)  
 <223> n = A, T, C, or G

<400> 56  
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 catattaact gatttagagg atactatgga ttccacatct tccctgagca tagggattga 120  
 tttgaaaaat gacagggttg gctgtcgacc cccatcggag gaagcaggta aggaatcact 180  
 taggagaact gatctcaaca ttcttcagtt ctttctatta tttacttggt tagcctggag 240  
 ttaaattccc actccttggt agcacttcta atttgaaaat ccactttctt caatattttc 300  
 gaaatttaaa actgatggat gacgtgacaa aacttcacg agttaagaat tctccacctc 360

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tgatctcatc gcagcagggc acaatccaag gcatgtgaat tgacttccag gtttatgtga 420
catataaatg aattctgtct ctagatttgg atcccattct cctaaatata tcaccatgca 480
tgtgcagata ttctaaagtc taaaaatatc tgatattgca aacttttctg gtcaaaacat 540
tttgatgag ccatttaaca gccaaggtat ttgagacaga ggtttcaaca gcattcctgg 600
aggagacaca aaggacagat gagtcacatg aaggatggga ggagggaaag tggctgttga 660
taggtatttt gagacactct atttgagtcc tacacaacac tccccctcc cccctccccc 720
ccaaaccatt tttatgtcta ttgacctttc ctctagtcat acagggacat tcacagttac 780
ctacaaagaa ccagaattgt aacaagtcaa gaggaaactt atttttgata atgactcatt 840
gaagatgttt tgaaaattta aaaataagct cttgtaagca gaagtctgtg agaaaagcaa 900
gaaggaattg tttgtttatt aaataaataa aaggcnmann nnaaaaaaaaa aaaaaaaaaa 960
gcggccgc

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<210> 57

<211> 52

<212> PRT

<213> Rattus norvegicus

<400> 57

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Met Asp Ser Thr Ser Ser Leu Ser Ile Gly Ile Asp Leu Lys Asn Asp
 1             5             10             15
Arg Val Gly Cys Arg Pro Pro Ser Glu Glu Ala Gly Lys Glu Ser Leu
      20             25             30
Arg Arg Thr Asp Leu Asn Ile Leu Gln Phe Phe Leu Leu Phe Thr Cys
      35             40             45
Leu Ala Trp Ser
      50

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<210> 58

<211> 1183

<212> DNA

<213> Rattus norvegicus

<220>

<221> unsure

<222> (0)...(0)

<223> n = A, T, C, or G

<400> 58

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cttctgaagt gacatgtcct gcaaagaaag tccccacgtg ggtgtttcca ccaccactgt 120
cagctctgta gctgtgcaag ctggggactc caagatcgtg atagccgttg tcaagtgtgg 180
caaatgggtg cggtcccaac tggctgaggc acagcccaat ctctagaaa ttgggagcag 240
tcaagatgaa accagaaaac tgcttcacga tcacgagctc cttctggcca agcttaaggc 300
cttggaagat cgtgtgtggg gactcttaca ggaagcagac aggacggctg aagcaaacia 360
ggagcaaatg gaggtgtcga tgccatggcc agactctggg cgaagcatgg gccaccctgg 420
tcttcatgct tgaaagaaga agggagctcc tcggactgac atctgagttt tttcaaagcg 480
ccttgagatt tgctataaaa atagaccaag ctgaagattt tctgcagaat cctcacgagt 540
ttgagagtgc cgaagcctta cagtcacttc ttctgcttca tgaccgacac gccaaagaac 600
tcttagaacg atctctagtc cttttaaaca aaagccaaca actcactgac ttcatagaaa 660
aattcaagtg tgatggatct cctgtgaatt ctgagctcat ccaggagact cagagcagtt 720
gtctgaagat cgacagcctc cttgaacttc tgcaagacag gagaaggcag ctggacaagc 780
acttcagca acagaggcag gagttgtctc aggttctgca gttatgtctg tgggaccaac 840
aagaaagcca ggtttcttgt tggtttcaga aaacaataag agatctgcag gaacagagtc 900
tgggttcac cctttcagac aacaaagagt taatccgtaa gcacgaggac ctgccatcaa 960
agcaaagagt ccctgcagtt taggaattga acagaacagt ttcctgattg aatgatcttg 1020
gcgcctyytt ancggntgca gatggtgggg cttcctctgg nttctcatcc tcttccacta 1080

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atctggattt ttgttcccct ggtgtgccac atcacttttaa tttgaaagaa aaaaaataaa 1140  
 ttgggccgga aaaaaaaaaa aaaaaaaaaa aarrrrscgc cnc 1183

<210> 59  
 <211> 245  
 <212> PRT  
 <213> Rattus norvegicus

<400> 59  
 Met Lys Pro Glu Asn Cys Phe Thr Ile Thr Ser Ser Phe Trp Pro Ser  
 1 5 10 15  
 Leu Arg Pro Trp Lys Ile Val Cys Gly Asp Ser Tyr Arg Lys Gln Thr  
 20 25 30  
 Gly Arg Leu Lys Gln Thr Arg Ser Lys Val Arg Cys Arg Cys His Gly  
 35 40 45  
 Gln Thr Leu Gly Glu Ala Trp Ala Thr Leu Val Phe Met Leu Glu Arg  
 50 55 60  
 Arg Arg Glu Leu Leu Gly Leu Thr Ser Glu Phe Phe Gln Ser Ala Leu  
 65 70 75 80  
 Glu Phe Ala Ile Lys Ile Asp Gln Ala Glu Asp Phe Leu Gln Asn Pro  
 85 90 95  
 His Glu Phe Glu Ser Ala Glu Ala Leu Gln Ser Leu Leu Leu Leu His  
 100 105 110  
 Asp Arg His Ala Lys Glu Leu Leu Glu Arg Ser Leu Val Leu Leu Asn  
 115 120 125  
 Lys Ser Gln Gln Leu Thr Asp Phe Ile Glu Lys Phe Lys Cys Asp Gly  
 130 135 140  
 Ser Pro Val Asn Ser Glu Leu Ile Gln Gly Ala Gln Ser Ser Cys Leu  
 145 150 155 160  
 Lys Ile Asp Ser Leu Leu Glu Leu Leu Gln Asp Arg Arg Arg Gln Leu  
 165 170 175  
 Asp Lys His Leu Gln Gln Gln Arg Gln Glu Leu Ser Gln Val Leu Gln  
 180 185 190  
 Leu Cys Leu Trp Asp Gln Gln Glu Ser Gln Val Ser Cys Trp Phe Gln  
 195 200 205  
 Lys Thr Ile Arg Asp Leu Gln Glu Gln Ser Leu Gly Ser Ser Leu Ser  
 210 215 220  
 Asp Asn Lys Glu Leu Ile Arg Lys His Glu Asp Leu Pro Ser Lys Gln  
 225 230 235 240  
 Arg Val Pro Ala Val  
 245

<210> 60  
 <211> 1051  
 <212> DNA  
 <213> Rattus norvegicus

<400> 60  
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 atgcgcgaga agaacgtgca atctcgcgag atcaggctcg ctgcgaggca gtctgctcgc 120  
 agcctaccct tcctaggagt tggaggagg aaagctagat tcgattaaga gcaaaaaatt 180  
 gttccagcag cagagcagct gtccaaggaa gtatccaaag gaactgcacc tcagtaaaact 240  
 cctggcaagt cttaggatat gacaaagggc acaggatgca ttatgagaaa ggaaggctaa 300  
 ggttttcaag aacacagatt tacatcaaac ttgcgttctg aattaatctt tgagaataact 360  
 ggactgtgag ctagacattg agtaagaggt ttgttatatc aagaatgtga tctaaaaaaa 420  
 aaacattcat atcttcctcc cacaagagga tattttgaaa ctgtgggtca aagtcagact 480

acaggagagc	cctcaaatat	gccaaatgtg	acagacagca	ggattttgaa	aatatagtgg	540
gagtatgtga	agatgttcca	gtcaaagaga	cattgtttcc	aaaggaaaga	aagtccagtc	600
gcctcacagg	aattgtgtat	tccctggtag	taatgcaa	ggaccacata	tggctttctt	660
ctttaaagag	aataccta	tttagctaca	gagtaaaatg	ctgatgatac	aaaccgtgac	720
aagtggaggg	acaagaaagt	aaatggactg	atgggtgcat	tgtggactgg	gagggtaaaa	780
gctgtacatt	tgtgaacaaa	aagatttcct	tgttatggtc	agccatgatt	ctaactgcta	840
aatggaggca	gtaacaacat	gacctaaa	gtaaacatcc	agagatggaa	tggtctcaat	900
gtctgaaaag	gagcagatat	ctggtgtatg	tgaatgtatg	ctagagattt	tttacaagcc	960
tgtggtgaat	tagtaattgt	attttatttt	gaaagttaaa	caggtaatta	gaaaccccaa	1020
aaaaaaaaaa	aataaaaaaa	aagcggccgc	c			1051

<210> 61

<211> 576

<212> DNA

<213> Rattus norvegicus

<220>

<221> unsure

<222> (0)...(0)

<223> n = A, T, C, or G

<400> 61

tctagcgaac	cccttcgctg	aaaccaccgt	tcacacggga	aacctgggtt	aggcttttgt	60
cctcagtgac	acagaggatg	tagtccacag	ctaggtagaa	atgtcagggt	ccaacacta	120
ctccagctgt	gactttgatg	cttgggggat	ggggtcgag	gctattttct	ctgctttaac	180
agttcataga	atttaacaga	taagagttag	tgtctttcat	gtggcctcac	tctggagtta	240
tgagaacata	cacacggttt	acagcttttc	aatatncctt	tccctggcca	tcaagtattt	300
tgaaagtgtg	ccacctttta	acctttgcgc	tttatttttt	tttctttttt	taaagntgaa	360
ggtgataatt	cttctatata	tgatgaaact	caatgtctac	tgaaataagt	gtaacccttag	420
ctatncacgt	ttatntttta	aaaccacgct	atggagatat	taccccgagt	tctgtcnttt	480
ngcaagattt	acagnacctt	ccncccccc	cttttagcat	tnaataaaaa	natattgggg	540
agcncnntna	aaaaaaaaaa	aatnaaaaaa	agcggc			576

<210> 62

<211> 587

<212> DNA

<213> Rattus norvegicus

<220>

<221> unsure

<222> (0)...(0)

<223> n = A, T, C, or G

<400> 62

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gttggctgca	gcatccccca	tggtcttgct	tgagggtgcc	tgtgactcga	ctcttcagaa	120
ctcaatgaag	tagatga	gactacaatg	tggaacatc	atgacagaaa	gtgtggtttg	180
taccggggcc	gtcagcactg	taaaggaagt	ctgggaagaa	agaataaaga	aacatcatga	240
agatgtgaaa	cgagagaagg	aatttcagca	aaagctagt	cggatctggg	aagaccgagt	300
gagtttaact	aagctgaaag	agaagggtgac	cagggaaagt	ggaagaatca	ttctaaggat	360
agagaaagag	gaatggaaga	ctctcccttc	ttccttactg	aaactgaatc	agctacagga	420
gtggcaactt	cataggaccg	gattgttgaa	aattcctgaa	ttcattggaa	gattccagca	480
tctcattggt	ctagacttat	ctcgaacac	aatttcagag	atccccccga	ggcattggag	540
tgntcactta	gacttcaagg	aactgattct	tagctacaca	aatcaa		587

<210> 63

<211> 142

<212> PRT  
<213> Rattus norvegicus

<220>  
<221> UNSURE  
<222> (0)...(0)  
<223> Xaa = any amino acid

<400> 63  
Met Thr Glu Ser Val Val Cys Thr Gly Ala Val Ser Thr Val Lys Glu  
1 5 10 15  
Val Trp Glu Glu Arg Ile Lys Lys His His Glu Asp Val Lys Arg Glu  
20 25 30  
Lys Glu Phe Gln Gln Lys Leu Val Arg Ile Trp Glu Asp Arg Val Ser  
35 40 45  
Leu Thr Lys Leu Lys Glu Lys Val Thr Arg Glu Asp Gly Arg Ile Ile  
50 55 60  
Leu Arg Ile Glu Lys Glu Glu Trp Lys Thr Leu Pro Ser Ser Leu Leu  
65 70 75 80  
Lys Leu Asn Gln Leu Gln Glu Trp Gln Leu His Arg Thr Gly Leu Leu  
85 90 95  
Lys Ile Pro Glu Phe Ile Gly Arg Phe Gln His Leu Ile Gly Leu Asp  
100 105 110  
Leu Ser Arg Asn Thr Ile Ser Glu Ile Pro Pro Arg His Trp Thr Xaa  
115 120 125  
His Leu Asp Phe Lys Glu Leu Ile Leu Ser Tyr Thr Lys Ser  
130 135 140

<210> 64  
<211> 819  
<212> DNA  
<213> Rattus norvegicus

<220>  
<221> unsure  
<222> (0)...(0)  
<223> n = A, T, C, or G

<400> 64  
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gtcttgtagt tatgtattga agtttctgtc ctgttttgtg taaaaatgta tccactcttg 180  
tatatatatta gacttgaaac taccacacaa atattggaac ggtttgcttt atgaagttaa 240  
aagtatcctt ccgaatggaa ctaacttgct ttgtgctcag acatatacta tgctgatgta 300  
ttttgcaata tactatctta aattaaatct ggtcactttg ttgccttttt aaaaagtgtg 360  
gtatttcaag tagagttatt ttcctgaaat atatttgcaa actcaagctg ctttataatc 420  
aaggaatatt tttattgatt gaagaaaatg actgctgcaa ttcaaaagtg aacttatttt 480  
attatataga tgatttctta aaagctattt ataccatgat acaaaatcat gtagtgatcc 540  
tgaggactcg tagttcttcc tgtaataaac attcaacact gtatgctaga ggcagcaatg 600  
ccaacactga agttattttg ggtgaaaacc gtcgttctgn cctgtttagc tggggattat 660  
taaatccata taatgtatgt gcttatgtat gctacatgtg caagttaggt gtttcctttg 720  
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attggaaaaa ataaaaaaaa aaaaaaaaaa gcggccgcc 819

<210> 65  
<211> 1648



<212> DNA  
<213> Rattus norvegicus

<220>  
<221> unsure  
<222> (0)...(0)  
<223> n = A, T, C, or G

<400> 65  
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aagacatgca gcagcagcgc cctgtggttt tggtttttta tttgattgct tatttttatc 120  
taatttttaa ttttttgtgt atgaacgttt tatctgcatt tatgtctctg taccacattc 180  
gtgcctggtg ctatggaggc caaaaaagga ttttagggcc gagattgtag ttatagatgg 240  
ttgtgggctg ccaatctgag tgctgaaaat taaacctggg tactctgaaa gaccagccag 300  
tgctcttaac tatcaggcca cctctccagc actattttat tttattttat ttgtggagat 360  
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tccttgagta ctaggattct aggcacctgt cattatgcct agatttttaa cagtgtgtgt 480  
taattctaca taaaaatgaa tttcattatt acattttcac acttgtgaag aatatacttt 540  
gatcataatc cttctcctg ataacttttc ctatccttcc tccccactcc attagttccc 600  
ttcttctttt cagagtctac cttctacttt ttactttgat ttttttcccc ccacattctg 660  
tggttgagag aatgcatatt acagttgtat ttctgaatct ggctaggtag attcacttaa 720  
cataattaat gatcctgggc gagcgaagg gttcncctan cnaaccctt cggttcaata 780  
ccatttcaga gatgggcatt tccctcaatg aaatacacaa gtaaaccatt cgacattgtc 840  
tttaggagtg tttgttaaaa aaaaaaaaaa aaaaaaccan ancccaaaaan caaaaaaaaaa 900  
aaagctttgc accttgcaaa agtggtcctg gcgtgggtag attgctgtta atcctttatc 960  
aataacgttc tatagagaat atataaatat atatataatt atatctccta gtccctgcct 1020  
cttaagagcc gaaaatgcat ggggtgttga gacattcggg tgcactaaat tcctctctga 1080  
atthtggctg ctgaagccgt tcatttagca actgtttata ggtgggtgat gaatggttcc 1140  
ttatctccat ttcttctat gttagcttaag ccgcttcctt cacagaatct aataatctcg 1200  
tctaggccat tagccctgcc ctttcttaac attcttgcatt ttgttgaatt tggcctcctc 1260  
gaaagcaata gcaactgggt ggcccacca agttttaacg cccctgattc catctatggc 1320  
atttgtacca aatataagtt ggatgcattt attttagaca caaagcttta ttttttcgac 1380  
atcgtgtttc aagaaaaaaa acaaatagaa taacaataac tatgactttg aggccaatca 1440  
tttttaggtg tgtgtttgaa gcatagaacg tctnttaaac tctcaatggg tccttcaa at 1500  
gatgagttag tatgtaacgt aaatagcagt ttctctctct ctctctctct ttttattttt 1560  
tccanataga gcactatgta aatttagcat atcaataata cagggaactat cnccaaaaaa 1620  
aaaaaaaaaa aaaaaaaaaa gcggccgc 1648

<210> 66  
<211> 782  
<212> DNA  
<213> Rattus norvegicus

<220>  
<221> unsure  
<222> (0)...(0)  
<223> n = A, T, C, or G

<400> 66  
tctagcgaac cccttcgtag aactaggagc cagtgttgac cacggtcggt ggctggatac 60  
cccactgcat gctgcagcaa ggcagtcag tgtggaggtc atcaatctgc tcaactgagta 120  
tggggctaac ctgaaactca gaaactcgca gggcaaaagt gctcttgagc tcgctgctcc 180  
caaaagtagt gtggagcagg cactcctgct ccatgaaggc ccacctgctc tttctcagct 240  
ctgccgcttg tgtgtccgga agtgcttggg ccgcacatgt catcaagcca tctacgcact 300  
aggtctgcc aacccttg aaaaattcct cttataccaa tagttggaaa catgttgctt 360  
gctgtaggac acttaataa cacattcagt ggcttaaccc actatcctaa aaatctgctt 420  
acctaattag aataaagcct tcataaatcc aaataactgc gttgaacaaa ctccctggta 480

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ggttaatggn tgccaagaga taaccagaaa cctttcaagt ttttaactct tggtaattta 540
aaatcaaact gaaatagatg gaaaataata atctatTTTT ggataattca aggacccttc 600
agtatctggg gctgggtcc gcattttgna tactggatag acacacacac aggtaggata 660
nggtaaatna actacttaaa gaatggcctg ggattttaagt cctccagata ttttttaggt 720
ngnggtttcc taaaataaaa ttctggagt ccaaaaaaaaa aaaaaaaaaa aaaaagcggg 780
cc 782

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```

<210> 67
<211> 49
<212> PRT
<213> Rattus norvegicus

```

```

<400> 67
Met Ser Ser Ser His Leu Arg Thr Arg Ser Ala Arg Thr Pro Gly Lys
 1           5           10           15
Ile Pro Leu Ile Pro Ile Val Gly Asn Met Leu Pro Ala Val Gly His
      20           25           30
Leu Ile Tyr Thr Phe Ser Gly Leu Thr His Tyr Pro Lys Asn Leu Leu
      35           40           45
Thr

```

```

<210> 68
<211> 538
<212> DNA
<213> Rattus norvegicus

```

```

<220>
<221> unsure
<222> (0)...(0)
<223> n = A, T, C, or G

```

```

<400> 68
gtctagcgaa ccccttcggg aaacttcaac aaaggtacca gcaactacag cgccttgtcc 60
accagatTTT cttcagccaa aagtctcaga ctgagaaacg gttctcggag aagcattcga 120
ccctggtgaa tgatgcctac aagactcttc aggccccgt gagcagagga ctatatcttc 180
taaagctcca aggaatagaa attcctgaag ggacagatta tagaacagac agtcagttcc 240
ttgtggaaat catggaaatc aatgaaaaac tcgcagacgc caaaagtga gacagccatgg 300
aagaggtaga agccactgtc agagctaaac agaaagaatt tacggacaat ataaacagag 360
cttttgaaca aggtgatttt gaaaaagcca aggaacttct tacaaaaatg agatactttt 420
caaacataga agaaaagatc aagttaagca agaaccctct ctagttgcta acttaaaggt 480
ttaaaaaataa actttgtatt tcttcannnn nnannnnnn nntnnnnnag cggccgcc 538

```

```

<210> 69
<211> 70
<212> PRT
<213> Rattus norvegicus

```

```

<400> 69
Met Glu Ile Asn Glu Lys Leu Ala Asp Ala Lys Ser Glu Ala Ala Met
 1           5           10           15
Glu Glu Val Glu Ala Thr Val Arg Ala Lys Gln Lys Glu Phe Thr Asp
      20           25           30
Asn Ile Asn Arg Ala Phe Glu Gln Gly Asp Phe Glu Lys Ala Lys Glu
      35           40           45
Leu Leu Thr Lys Met Arg Tyr Phe Ser Asn Ile Glu Glu Lys Ile Lys

```

50  
Leu Ser Lys Asn Pro Leu  
65 70

55

60

<210> 70  
<211> 805  
<212> DNA  
<213> *Rattus norvegicus*

<400> 70  
tctagcgaac cccttcgcga aggggttcgc ttcttaccct gtggagaaag gggcaggagg 60  
aacctcctgt gttaggagga agctggagct taccactgtg agaggacaga tgtggactga 120  
gaattttctt agtgctcagt ggcacttccc aaggactccc ctccccttgt gctctgtgcg 180  
gttttttagga cagctaagat gactgccacc tgttgtggca ggcccgattt gtcttgttct 240  
ccccttactg taccocgata taatctctgt tgatcaacag gactacccca agaatccaca 300  
tgttctcccc cgtaaccagg cagctgtctg gttcatgcct tcttcccttc aaacccaacc 360  
cagcgccttt gttagtgaag aggtggtcca tggactgatg acaagttatt agcactggat 420  
gctgtttcca tagtgacaag cctatacctc ttcccaccct ttagtgcgca gtgggctgct 480  
gcttcagtat cctcccagct cagttttatt agatcaaagc tgcccttggg caccatgttg 540  
gccacctcaa tcaccagcca aaatggtcgc tttgtccacc agaggtcaag ccattcttct 600  
ggcgtgtag ttcccagctc cttctaggga acaggaaagt gatattgcca tgggggagg 660  
ggcggggtgt ggccgtcacc tcaatagttt tactgtaaaa gggaaatttg aacaagaaca 720  
acaaacaaaa aaaaaaaaaa acaaagaaaa aaataaaaaa ctttaaaaagt tgaacaaaaa 780  
aaaaaaaaaa aaaaaaagcg gccgc 805

<210> 71  
<211> 1407  
<212> DNA  
<213> *Rattus norvegicus*

<220>  
<221> unsure  
<222> (0)...(0)  
<223> n = A, T, C, or G

<400> 71  
tctagcgaac cccttcgctg ggacccgcaa ctaccaactg ccgcctggat cctaggtgag 60  
ctgtgggctc tgacagcgct gtggctaaca tggcacccaa aaagaagact ctcaagaaga 120  
acaaacccga gatcaatgag atgaccatca tcgtggaaga cagcccccta aacaagctga 180  
atgctctaaa tgggctcctg gggggagaaa acagccttag ctgtgtttct ttcgaactaa 240  
cagacacttc ttatgggtccc aacctcctgg aaggtttaag taaaatgcgt caagagagct 300  
ttctatgtga cttgggtcatc ggtccaaaac caagtccttt gatgtccata agtcaagtga 360  
tggtctcctg cagcgagtct tctataatat ccttaaaaac atccatcgac aaaaagggtg 420  
gacctcaatg atatcgnccc tttagggtta ccaccgtgat agcatatgca tacacnggaa 480  
agctgccctt tctttataca caataaggaa gcatcatttc tgctgctgtg tacctccaga 540  
tccacactct tgtgaagatg tgcagcgact ttctgatccg agagatcagt gttgagaact 600  
gcatgtatgt tgtaaacatg gctgaaacat actgcttgaa aaatgcgaaa gcaacggccc 660  
agaaatttat ccgggataac ttcattgaat ttgccgactc cgaacaattt atgaagctga 720  
cgtttgaaca gattaatgag cttctcatag atgatgactt gcagttgcct tctgagctgg 780  
tagcattcca gattgcaatg aaatggatag aattcaacca aaagagagtg aagcacgctg 840  
cggtctttt aagcaatatt cgctttggta ccattctctg acaagacctg gtcaattacg 900  
ttcaaaccgt accgagaatg atgcaagacg ctgattgtca taaactgctt gtggatgcta 960  
tgaactacca cttactacct tatcatcaaa acacgttgca atctaggcgg acaagaatta 1020  
gaggcggctg ccgggttctg atcactgtcg ggggacgccc tggcctgact gagaagtccc 1080  
ttagtagaga cgtttatata gagaccctga aaatggatgg agcaagctta cagaaatgcc 1140  
agccaagagt ttcaatcagt gtgtggctgt gatggatgga ttcctttatg tagcaggtgg 1200

```

tgaggaccag aatgatgcga gaaaccaagc caagcatgca gtcagcaatt tctgcaggta 1260
ccgatccccg cttcaacacg tggatccacc tgggcagcat gaaccagaag cgcacgcact 1320
tcagcctgag cgtgttcaac gggctcctgt acgccggtgg ngggcnccag tgnganggat 1380
atctgcagaa ttcggctagc cgaattc 1407

```

```

<210> 72
<211> 113
<212> PRT
<213> Rattus norvegicus

```

```

<400> 72
Met Ala Pro Lys Lys Lys Thr Leu Lys Lys Asn Lys Pro Glu Ile Asn
1          5          10          15
Glu Met Thr Ile Ile Val Glu Asp Ser Pro Leu Asn Lys Leu Asn Ala
20          25          30
Leu Asn Gly Leu Leu Gly Gly Glu Asn Ser Leu Ser Cys Val Ser Phe
35          40          45
Glu Leu Thr Asp Thr Ser Tyr Gly Pro Asn Leu Leu Glu Gly Leu Ser
50          55          60
Lys Met Arg Gln Glu Ser Phe Leu Cys Asp Leu Val Ile Gly Pro Lys
65          70          75          80
Pro Ser Pro Leu Met Ser Ile Ser Gln Val Met Ala Ser Cys Ser Glu
85          90          95
Ser Ser Ile Ile Ser Leu Lys Arg Ser Ile Asp Lys Lys Gly Arg Pro
100          105          110
Gln

```

```

<210> 73
<211> 2004
<212> DNA
<213> Rattus norvegicus

```

```

<220>
<221> unsure
<222> (0)...(0)
<223> n = A, T, C, or G

```

```

<400> 73
tctagcgaac cccttcggac actgccagca tagacagcag cccctgctac tgtcccacca 60
ctgtacccca gagccccgac tagcagtatg ccgggagcgc cagggcctgg gcctgagggtg 120
gctgcagcct ttgaggaacg gttgagtcag gcactacagg aactgcaggc agtggctgaa 180
gcaggccggt cagcgggtgac ccaggcagct gatgcagccc tagccactgt agagccagtg 240
gctcaggcat ctgaagagct tcgggcccag acagcagccc tgagccggcg gctggatgcc 300
ctgaccaggc aggtggaggt gctgagccta cggttggtg ttccactcgt gccggacctg 360
gagtccgagc tagagcccag cgagctgttg ctggctgctg ccgaccctga ggccctcttc 420
caggcaagct gaggatgctg ggacccccgt ggccacccgc ctgcctttag caccgcgcgc 480
agctcttctg cgggcccctc tcgaagcagc agtctcatgg agcccgatcc agcagagccc 540
ccctctgcca cagtggaaagc agctaattga acagagcaga ctctggacaa agtgaacaaa 600
ggcccagagg ggcggagccc cctgagtgca gaggagctga tggccattga ggacgaagga 660
atcttggaac agatgctgga ccaggctacg aactttgaag agcggaaagct catccgggct 720
gcgtccgtg agtcccgaca aagaaagaga gaccagagggg acaaggaacg agaacggcgg 780
ctacgagagg cacgggccccg gccaggcgag agccgaagca atatggctac tacagagacc 840
accaccaggc acaagccaga gggcggctga tggctcggcg gtcagcacag ttacaaaaac 900
tgagcgggtc gtccactcca atgacggcac gcagactgcg cgcaccacca cagtggagtc 960
gagtttcgtg aggcgctcgg agaattggcag cagcaagcaa gcagcagcac cacggtccaa 1020

```

```

accaagacct tttcctcttc ctcttcctca tccaaaaaaa tgggcagtat cttcgaccga 1080
gaggacaaaa ccagctcacg ttctggcagc ctggcgggccc tcgaaaaacg ccaggcagag 1140
aagaagaaag agctcatgaa ggcacagagt ctgccaaga cctaagcgtc ccaagcacgc 1200
aaggccatga ttgagaaact agagaaggaa ggctcttcgg gcagtcctgg cacaccccgt 1260
acagcggtac agcgttctac cagcttcgga gtccccaacg ccaacagcat caagcagatg 1320
ttgctggact ggtgccgagc caagacccgt ggctacgagc acgtggacat ccagaacttc 1380
tctccagctg gagtgatggg atggctttct gtgccctggt gcacaatttc ttccctgagg 1440
cttttgacta tggacagctt agcccacaaa accggcgcca gaactttgaa atggccttct 1500
catctgctga gacccatgcg gactgccgcg agctcctgga tacagaggac atgggtgcggc 1560
ttcgagagcc tgactggaag tgcgtgtaca cgtacatcca ggagttctac cgctgtctgg 1620
tccagaaggg gctggtaaaa accaaaaagt cctaaccctt gcttgggggc ccacggatgc 1680
tgggtggactg tgtacccttg gtggaggtgg aggacatgat gatcatgggc aaaaagccag 1740
accctaagtg cgtcttcacc tacgtgcaat cgctgtacaa ccacctgcgg cgccatgagc 1800
tgcgctgcg cggaagaat gtctagccac tgctcacacc gcctgcgctg caggctgctg 1860
tcccacgccc ccaacaccgg nccctncagt gngcctgcca ctgntgcccg tntgtcgaag 1920
cacctntccc cttgtcacac gcagngnttt gataaattat ttgntttnaa caaaaaaaaa 1980
aaaaaaaaaa aaaaaagcgg ccgc 2004

```

<210> 74  
 <211> 114  
 <212> PRT  
 <213> Rattus norvegicus

```

<400> 74
Met Pro Gly Ala Pro Gly Pro Gly Pro Glu Val Ala Ala Ala Phe Glu
 1           5           10           15
Glu Arg Leu Ser Gln Ala Leu Gln Glu Leu Gln Ala Val Ala Glu Ala
      20           25           30
Gly Arg Ser Ala Val Thr Gln Ala Ala Asp Ala Ala Leu Ala Thr Val
      35           40           45
Glu Pro Val Ala Gln Ala Ser Glu Glu Leu Arg Ala Glu Thr Ala Ala
      50           55           60
Leu Ser Arg Arg Leu Asp Ala Leu Thr Arg Gln Val Glu Val Leu Ser
65           70           75           80
Leu Arg Leu Gly Val Pro Leu Val Pro Asp Leu Glu Ser Glu Leu Glu
      85           90           95
Pro Ser Glu Leu Leu Leu Ala Ala Ala Asp Pro Glu Ala Leu Phe Gln
      100          105          110
Ala Ser

```

<210> 75  
 <211> 881  
 <212> DNA  
 <213> Rattus norvegicus

```

<400> 75
tctagcgaac cccttcgctc cagggcggtt gcctcctgct gacttgctct tcaccattag 60
acaagcctga cgtcaagacc ccaatggcta acgaagctaa cccttgccca tgtgacattg 120
gtcacaggct agactatggt ggcattggcc aggaagttca ggttgagcac atcaaggcat 180
atgtcacccg gtcccctgtg gatgcaggca aagctgtgat tgttggtccag gatataattg 240
gctggcagct gtccaacacc aggtatatgg ctgacatgat tgctggaaat ggatacacia 300
ctattgcccc gacttctttg tgggtcaaga gccatgggac ccggctgggt attggtccac 360
cttccctgag tggttgaaat caagaaatgc cagaaaaatc aaccgagagg ttgatgctgt 420
cttgaggtat ctgaaacaac agtgtcatgc ccagaagatt ggcatgtgtg gcttctgctg 480
ggggggtatt gtggtgcacc acgtgatgac gacatatcca gaagtcagag cgggggtgtc 540

```

tgtctatggt atcatcagag attctgaaga tgtttataat ttgaagaacc caacgttggt 600  
 tatctttgca gaaaatgatg ctgtgattcc acttgagcag gtttctatac tgatccagaa 660  
 gcttaaagaa cactgcatag ttaattacca agttaagaca ttttctgggc aaactcatgg 720  
 ctttgtgcat cggaagagag aagactgctc ccctgcagac aaaccctaca ttgaggaagc 780  
 gaggaggaat ctcatcgaat ggctgaacaa gtatatTTaa cagcactcaa gcacaaattt 840  
 tgaataatta aattgacccg aataattaaa ttgacccgaa t 881

<210> 76  
 <211> 97  
 <212> PRT  
 <213> Rattus norvegicus

<400> 76  
 Met Ala Asn Glu Ala Asn Pro Cys Pro Cys Asp Ile Gly His Arg Leu  
 1 5 10 15  
 Asp Tyr Gly Gly Met Gly Gln Glu Val Gln Val Glu His Ile Lys Ala  
 20 25 30  
 Tyr Val Thr Arg Ser Pro Val Asp Ala Gly Lys Ala Val Ile Val Val  
 35 40 45  
 Gln Asp Ile Phe Gly Trp Gln Leu Ser Asn Thr Arg Tyr Met Ala Asp  
 50 55 60  
 Met Ile Ala Gly Asn Gly Tyr Thr Thr Ile Ala Gln Thr Ser Leu Trp  
 65 70 75 80  
 Val Lys Ser His Gly Thr Arg Leu Val Ile Gly Pro Pro Ser Leu Ser  
 85 90 95  
 Gly

<210> 77  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer specific for vector to produce "Driver DNA".

<400> 77  
 cgtatgttgt gtggaattgt gagcg 25

<210> 78  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer specific for vector to produce "Driver DNA".

<400> 78  
 gatgtgctgc aaggcgatta agttg 25

<210> 79  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Oligos corresponding to polylinker sequence.  
  
 <400> 79  
 gccgccagtg tgctggaatt cggctagc 28  
  
 <210> 80  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Oligos corresponding to polylinker sequence.  
  
 <400> 80  
 cgaattctgc agatatccat cacactgg 28  
  
 <210> 81  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Oligos corresponding to polylinker sequence.  
  
 <400> 81  
 ctagagggcc caattcgccc tatag 25  
  
 <210> 82  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Oligos corresponding to polylinker sequence.  
  
 <400> 82  
 tgagtcgtat tacaattcac tggcc 25  
  
 <210> 83  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Oligos corresponding to polylinker sequence.  
  
 <400> 83  
 gctcggatcc actagtaacg 20  
  
 <210> 84  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>

<223> Oligos corresponding to polylinker sequence.

<400> 84

tttttttttt tttttttt

18